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Columbia University BULLETIN OF INFORMATION

Forty-fourth Series, No. 18

April 8, 1944

ANNOUNCEMENT OF THE

SCHOOL OF DENTAL AND ORAL SURGERY

COPY 2
COLUMBIA UNIVERSITY-1945



630 WEST 168TH STREET NEW YORK 32, N. Y.

Columbia University Bulletin of Information

Forty-fourth Series, No. 18

April 8, 1944

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These include the Report of the President to the Trustees, and the Announcements of the several Colleges and Schools, and of certain Divisions, relating to the work of the next year. These are made as accurate as possible, but the right is reserved to make changes in detail as circumstances require. The current number of any of these Announcements will be sent upon application to the Secretary of the University.

C. U. P. 6,700-1944

COMMUNICATIONS

All communications regarding the School of Dental and Oral Surgery, application for admission, and appointments for personal interviews should be addressed to the School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y.; telephone Wadsworth 3-2500.

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Columbia University in the City of New York

ANNOUNCEMENT OF THE

SCHOOL OF DENTAL AND ORAL SURGERY

1944-1945



630 WEST 168TH STREET NEW YORK 32, N. Y.

Serial 1944/45-1959 Spector

THE SCHOOL OF DENTAL AND ORAL SURGERY

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¹ On leave 1944-1945.

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Morell Dion McKenzie Assistant Professor of Dentistry D.D.S., Minnesota, 1917. [Prosthetics]
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¹ Edward Becker, D.M.D
[1.00.2008]

¹ On leave 1944-1945.

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Nathan Harold Link, B.S., D.D.S.

1 On leave 1944-1945.

GENNARO ROBERT CARVELLI, D.M.D.

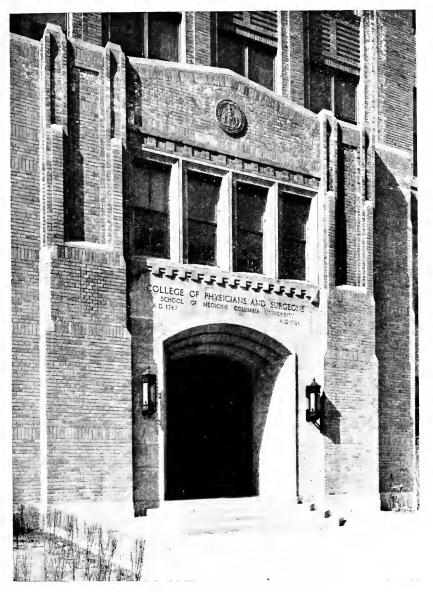
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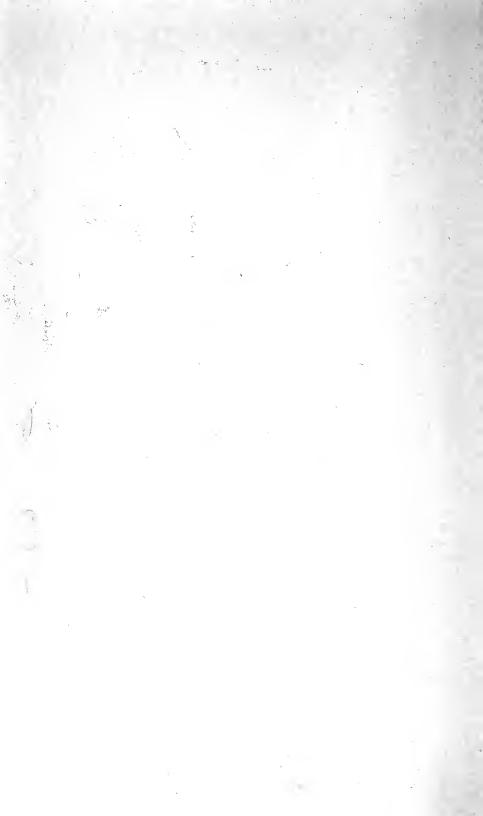
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¹ On leave 1944-1945.



ENTRANCE TO THE SCHOOL OF MEDICINE AND THE SCHOOL OF DENTAL AND ORAL SURGERY



THE SCHOOL OF DENTAL AND ORAL SURGERY

Columbia University was founded in 1754 as King's College by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The Revolutionary War interrupted its active work, but in 1784 it was reopened as Columbia College. In 1912 the title was

changed to Columbia University in the City of New York.

In September, 1916, students in dentistry were admitted to courses in Columbia University at the School of Medicine. On March 5, 1917, the Trustees of the University established a School of Dentistry as of September 27, 1916, and from that date the School became an integral part of the University. On March 1, 1920, the dental building adjacent to the School of Medicine and Vanderbilt Clinic was finished and assigned to the use of this school.

On July 1, 1923, the College of Dental and Oral Surgery of New York (organized in 1905) was merged with the School of Dentistry, and the combined institutions named the School of Dental and Oral Surgery of Columbia University. By this merger Columbia acquired two large buildings, at 302–306 East 35th Street and 309–315 East 34th Street, in which the School was housed up to the time of moving

into the Medical Center.

In September, 1928, the School was moved to the Columbia University-Presbyterian Hospital Medical Center. The dental department of the School occupies the three upper floors of the Vanderbilt Clinic wing, a net floor area of 40,000 square feet. The fundamental science subjects, which are given to both dental and medical students, are taught in the adjoining College of Physicians and Surgeons, the corridors of the two schools being continuous. In adjacent wings, the halls of which are also continuous with those of the School, the wards and out-patient departments of the Presbyterian and associated hospitals are located, thus giving the closest possible contact and association with all branches of health service. The Dental School clinic includes as one of its functions the dental care of the patients of the Medical Center hospitals.

It is the purpose of the Faculty to maintain dental education in this school on the same footing as that of other branches of health service. The course in dentistry covers four academic years leading to the degree of Doctor of Dental Surgery. The greater part of the first two years of the curriculum is taken in the fundamental science departments with students of the College of Physicians and Surgeons.

During the national emergency the School will be on an accelerated program which, without changing the content of the course, will permit the student to graduate in three calendar years. Under the Army Specialized and the Navy Collegiate Training Programs, classes are enrolled at nine-month intervals. Classes will begin their training in October, 1944, and in July, 1945.

STUDENTS

After having received an admission permit the student may proceed to register, in the stated registration period (see Academic Calendar), for such prescribed or

elective courses of instruction as are appropriate for his purposes. Acceptance of a student for admission is based on grounds of character and health, as well as on the fulfillment of academic requirements.

Each person whose registration has been completed will be considered a student of the University during the session for which he is registered unless his connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the consent of the appropriate Dean or Director.

Students prevented by conscientious scruples from complying with academic requirements which may be fulfilled only upon days set apart by their church for religious observance should make application to the appropriate authority for

equitable relief.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University, which is free to cancel his registration at any time on any grounds which it deems advisable. The disciplinary authority of the University is vested in the President in such cases as he deems proper, and, subject to the reserve power of the President, in the Dean of each faculty and the Director of the work of each administrative board.

GRADUATION

Commencement occurs in June, at which time all recipients of degrees awarded during the academic year are expected to attend the exercises unless excused. Diplomas are issued in June or at various times during the year. During the national emergency, it is planned to issue diplomas at periods of approximately nine months, as each class completes the requirements.

No degree will be granted to a student who has not registered for and attended at the University courses of instruction equivalent to at least one academic year of

full-time work.

An application for a degree or certificate, other than the several doctoral degrees, terminates at the next regular time for the issuance of diplomas subsequent to the date of filing; but under conditions prescribed by the respective faculties it may be subject to renewal for a fee of \$1.00 each time that a candidate chooses to come up for consideration, within a period not to exceed three years. Thereafter with the filing of a second application the regular fee is again payable—\$20 in the case of a degree and \$10 in the case of a certificate.

Dates for the filing of applications are given in the Academic Calendar at the end

of this Announcement.

WITHDRAWAL

An honorable discharge will always be granted to any student in good academic standing, and not subject to discipline, who may desire to withdraw from the University; but no student under the age of twenty-one years will be entitled to a dis-

charge without the assent of his parent or guardian furnished in writing to the proper Dean. Students withdrawing must notify the Registrar immediately.

The Dean of the school or faculty concerned may, for reasons of weight, grant

a leave of absence to a student in good standing.

When entry into the armed service takes place after the opening of any session, students should consult the Registrar for information as to special adjustment of fees or credits.

ANNOUNCEMENTS

The Announcements of each college or school, of the Summer Session, of University Extension, and of the several divisions may be obtained without charge from the Secretary of the University.

Letters requesting more detailed information than is contained in the Announcement, and all correspondence regarding admission, should be addressed to the Dean, School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y.

LIBRARY

A combined medical-dental library with spacious reading room containing approximately 120,000 volumes and about 10,000 pamphlets occupies a part of three lower stories of the main administration building of the Medical Center. A trained library staff provides specialized services to meet the needs of students, interns, teachers, and research workers of the combined Medical School, Dental School, and Presbyterian Hospital Unit. The library has seating capacity for 250 readers.

The periodical room on the upper floor is especially equipped to foster and encourage research work. Here are received over 1,300 current journals, and near by are shelved files of reviewing, indexing, and abstracting services and a selection of the more important journals. All other journals are in the stacks. A special alcove

contains the latest available literature relating to war medicine.

University Libraries. The Libraries on Morningside Heights are open to all students of dentistry, and books may be borrowed for home use. They include collections on anatomy, biochemistry, public health, nursing, and other subjects related to dentistry and supplement the special collections available in the College of Physicians and Surgeons and in the New York Academy of Medicine, Fifth Avenue at 103d Street. The library of the College of Pharmacy, 115 West 68th Street, is also open to students in the School of Dental and Oral Surgery.

UNIVERSITY PRIVILEGES

As the School of Dental and Oral Surgery is an integral part of Columbia University, its students enjoy all the privileges and facilities open to members of other departments of the University. They may reside in the University Residence Halls at Morningside Heights and are eligible to membership in the various social and other organizations of the student body.

University Gymnasium. The Gymnasium is situated on Morningside Heights and is open daily during the academic year, except on Sundays and legal holidays, from 9 a.m. to 7 p.m. on Tuesdays, Fridays, and Saturdays, and from 9 a.m. to

10 p.m. on Mondays, Wednesdays, and Thursdays. On all holidays it is open from 3 to 6 p.m. One or more of the instructors are on the floor at all times when the Gymnasium is open. Students of the School of Dental and Oral Surgery may enjoy its privileges and have the use of the Gymnasium and baths and a private locker. The student is entitled also to a physical examination by the University Medical Officer, who, on the basis of such an examination, will give advice as to the kind and amount of exercise best adapted to the needs of each man. The Gymnasium is large, thoroughly equipped, and under the immediate supervision of the Professor of Physical Education, who is assisted by a corps of able instructors.

Employment. The Appointments Office, located in Alumni House, is the central placement department of the University through which students and graduates are referred to suitable positions. For the convenience of the dental students, a division of the office is operated at the Medical Center in coöperation with the office of the

Dean of the School.

It is the function of the Appointments Office to endeavor to secure for competent men and women students who need to work their way through the University, the opportunity to earn enough for their partial support. It is the experience of the office, however, that it is practically impossible for dental students to undertake outside part-time work during the academic year without seriously jeopardizing their school work and their health. The office consequently does not encourage students of the School of Dental and Oral Surgery to seek employment during the academic year, although it assists competent men and women to secure suitable and remunerative work during the summer. In general, the office advises students who are unable to pay the complete cost of attending the School to withdraw for a year in order to earn the money necessary to enable them to give undivided attention to their academic work.

MEDICAL ATTENDANCE

A medical examination is given to each student annually. Provision has also been made at the Medical Center for examination and advice in cases of minor illnesses and for treatment of emergencies. All entering students are required to have a dental examination in the School and to have all necessary dental work completed prior to graduation. The University Medical Officer, Dr. W. H. McCastline, has supervision of all matters affecting the health of the student body.

KING'S CROWN HOTEL

The King's Crown Hotel, 420 West 116th Street, in close proximity to the University, is owned by the University. It provides accommodations at reasonable rates, available for relatives and guests of members of the University community.

INTERNATIONAL HOUSE

International House, 500 Riverside Drive, is a privately endowed residence for students from foreign lands and a limited number of American students. It accommodates 175 women and 325 men and contains a restaurant and social rooms. Inquiries should be addressed to the Committee on Admissions, International House, 500 Riverside Drive.

EARL HALL

Earl Hall was given to Columbia University by the late William Earl Dodge for the religious and social activities of the students. On the main and upper floors, reached by the campus entrance, are the offices of the Chaplain of the University and his staff and the offices of the three Religious Counselors. These floors also contain an auditorium and other facilities for extensive religious and social activities. The lower floor, entered from Broadway, is occupied by the offices of the University Medical Officer.

UNIVERSITY BOOKSTORE

For the convenience of the medical and dental students, the University Bookstore maintains a branch on B floor of the College of Physicians and Surgeons. In addition to medical and dental textbooks, the store carries a stock of new and used microscopes, laboratory equipment, and student supplies. The textbooks are sold at discounts from the usual prices whenever such discounts are permitted by the publishers. The store is open from 8:30 a.m. to 6 p.m. daily; during the first days of the opening session, until 10 p.m. The store maintains a theater and concert ticket service, a travel bureau, and other services.

HAMILTON ARBORETUM AND GARDENS ("NEVIS")

The Hamilton Arboretum and Gardens ("Nevis"), an estate of approximately seventy-two acres, the gift of Mrs. T. Coleman du Pont, of Wilmington, Delaware, is located at Irvington-on-Hudson, about sixteen miles north of New York City. Classes in landscape architecture and general horticulture meet at "Nevis," and special lectures are arranged from time to time.

A GUIDE TO COLUMBIA UNIVERSITY

A description of the grounds and buildings of the University will be found in *A Guide to Columbia University*, which is published by Columbia University Press, 709 Journalism, at \$1.25 in cloth and \$.50 in paper. The book also contains an account of the University's history and traditions.

REQUIREMENTS FOR ADMISSION, PROMOTION AND GRADUATION

ADMISSION TO FIRST YEAR OF THE SCHOOL OF DENTAL AND ORAL SURGERY

Eligibility. No definite information regarding eligibility can be given until the completed application blank has been filed by the applicant at the office of the Dean. Application. It is desirable that candidates make application during the academic year preceding that in which they seek admission. It is not necessary to complete the academic requirements before making application. However, all requirements must be completed before matriculation. Application blanks will be furnished by the

Dean's office of the School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y. Application blanks must be completely filled in and accompanied by

an official transcript of the college record.

For the period of the national emergency, the minimum requirement for admission to the first year class has been reduced from the satisfactory completion of three full years to the satisfactory completion of two full years (four sessions) at an acceptable college of arts and sciences, which must include the courses required for the dental student qualifying certificate as mentioned below.

The New York State Board of Regents includes the following subjects in the

minimum requirements for the qualifying certificate:

•								Sen	ester H	ours
English composition and literature									6	
Physics									6	
Biology										
Chemistry (including an approved co	ourse	in org	ganio	cho	emis	try)			12	

A point or semester hour is the equivalent of one hour of lecture or recitation or of two hours of laboratory work per week, per semester. Suitable laboratory work must be included in each of the courses in science.

Inasmuch as an understanding of the biological sciences is based upon the knowledge of the underlying sciences of chemistry, physics, and biology, students are urged, so far as time permits, to take additional courses in quantitative, qualitative, physical, and organic chemistry, physics, comparative anatomy, and other advanced courses in biology, as well as courses in mathematics, German and French, sociology, history, and other subjects of general cultural and scientific value. Courses in fine and industrial arts are also of value.

Owing to the limited number of students who can be accommodated, completion of the requirements for entrance does not guarantee admission. The entire predental record of each student is carefully examined by the Committee on Admissions in order that those who are adjudged most capable of meeting the exacting demands of the course and of the profession of dentistry may be selected. Preference will be given in the selection of students to those who present to the Committee on Admissions evidence of high achievement in selected college courses of special predental value and who are most likely to succeed in dentistry, rather than to those who present the largest number of course credits or those who have limited their preparation to the prescribed subjects.

COMBINED COURSES

Combined Courses with Columbia College. Upon receiving ninety-four points credit, sixty-four of which must be for work in Columbia College, including all the work prescribed for the degree of Bachelor of Arts in Columbia College, a student may take studies in the first year of the School of Dental and Oral Surgery, provided he can satisfy the stated requirements and is accepted for admission therein, and will receive the degree of Bachelor of Arts from Columbia College upon the satisfactory completion of the year's work. No course may be counted toward a pro-

fessional degree and at the same time be included among those which go to make

up the ninety-four points referred to above.

Students from Barnard College may exercise the professional option after the completion of 90 points of academic work, including all grouped work and a major of 28 points unless this number is reduced in individual cases by special permission of the Committee on Instruction of Barnard College.

Combined Courses in Dentistry and Medicine. It is usually possible for a graduate of a registered medical school with the degree of Doctor of Medicine to meet the requirements of the School and receive the degree of Doctor of Dental Surgery by

the satisfactory completion of a special two-year course.

SUMMER SESSION

In 1944 there will be no separate Summer Session, regular classes continuing throughout the summer with a vacation period in the month of July.

COURSES FOR DENTAL HYGIENISTS

The courses in dental hygiene offered by the School of Dental and Oral Surgery are intended for women who desire to become licensed dental hygienists. The requirements for admission are the completion of at least four years of high school work, including certain specific subjects, the attainment of at least eighteen years of age, and the qualifying certificate obtained from the Department of Education of the State of New York. Preference will be shown for applicants who have satisfactorily completed two or more years of college work. For full information address Mrs. Frances A. Stoll, at 630 West 168th Street, New York 32, N. Y.

COURSES FOR GRADUATES

The School of Dental and Oral Surgery, in cooperation with University Extension, arranges courses in the various divisions of dentistry to meet the needs of groups of practitioners. In 1944–1945 short refresher courses will be offered in various subjects in accordance with demand. Fees for such courses are based on costs. Requests should be sent to the office of the Dean.

Postgraduate students are accepted for advanced individual clinical study and for research. Requirements include graduation from an approved dental school, membership in the candidate's local and national dental societies, and recommendations from ethical practitioners. In most divisions of the School the applicant must register for a minimum period of one semester, either full or half-time. There is no degree or certificate offered for these specially arranged courses. Fees are based on the regular undergraduate fees. Applications should be sent to the office of the Dean, School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y.

CERTIFICATE OF PROFICIENCY

The School of Dental and Oral Surgery is authorized to grant a certificate of proficiency in dentistry or in a special branch of dentistry selected by the candidate and approved by the School of Dental and Oral Surgery to students who have com-

plied with the requirements stated below. The requirements for admission are graduation from the School of Dental and Oral Surgery or from another acceptable school of dentistry in the United States or in a foreign country, and membership in good standing in the applicant's national dental association. The membership requirement does not apply to students who enter within a year of graduation.

The course of study for the certificate of proficiency includes not less than fortyeight trimester credits of special work in the clinical branches of dentistry approved by the Dean of the School of Dental and Oral Surgery. The fee for the year's work leading to the certificate of proficiency is the same as for undergraduate work in the

School.

Application blanks may be obtained from the Dean's office. When application for registration is made, the candidate is passed upon by the Dean and the teachers concerned and, if accepted, registers in the regular manner.

COURSES IN ORTHODONTICS FOR GRADUATES

An organized fourteen-month course is offered to qualified graduates in dentistry who wish to prepare for specialization in orthodontics. Admission requirements include graduation from an acceptable school of dentistry and membership in good standing in the national dental organization of the applicant's country. This membership requirement does not apply to those who enter within the year of graduation or to those who have continued in full-time internships in hospitals or dispensaries. The certificate of proficiency is awarded to those who satisfactorily complete the course.

For special information see the Announcement of Advanced and Graduate Courses in Dentistry, which may be obtained from the Dean, School of Dental and Oral Surgery.

GRADUATE COURSES

Graduation from accredited dental schools under the present curriculum of four academic years preceded by three acceptable predental college years is considered by the Graduate Faculties of Columbia University as meeting the general requirement for admission. There are additional admission requirements in certain departments. A student who is accepted by the Graduate Faculties as a candidate for the degree of Doctor of Philosophy and who holds the Doctor of Dental Surgery degree from Columbia University may, with the consent of the Dean, offer the work done for the professional degree in lieu of thirty points toward the fulfillment of the resident requirement for the degree. For further information see the Graduate Announcement.

PUBLIC HEALTH FOR DENTISTS

A one-year course leading to a Master of Science degree in public health for dentists is offered. The course is open to graduate dentists. For information regarding course content, registration, and fees apply to the DeLamar Institute of Public Health, 600 West 168th Street, New York 32, N. Y.

REGISTRATION

Before attending University courses, every student must present himself at the office of the Registrar and file a registration blank giving such information as may be required. The periods set aside for registration in each session are stated in the Academic Calendar at the end of this Announcement. Registration at a later date is permitted only on the written permission of the Dean, satisfactory cause for the

delay having been shown.

The University Statutes provide that tuition fees, the University fee, and laboratory deposits are payable semiannually in advance. No reduction is made for late registration. Registration will not be complete until such fees are paid. Checks should be drawn to the order of Columbia University and presented in person or mailed to the office of the Bursar. Payment of fees after the last day of registration (see the Academic Calendar) imposes automatically the statutory charge of \$3.00 for this privilege. Under the regulations, the privileges of the University are not available to any student until he has completed his registration.

The fees to be paid by students are subject to change at any time at the discretion of the Trustees. Tuition fees for men in the Army Specialized and Navy Collegiate

Training Programs are paid by the government.

The following fees are prescribed for dental students:

(a)	University Fee For all students for each session, or for any part thereof	\$10.00
(b)	Tuition Fee For the course in dentistry for one half an academic year (or equivalent) in the case of a student enrolled for the full course	250.00
(c)	Fee for Application 1. For a degree 2. For a certificate	20.00 10.00
(d)	Privileges 1. Late registration or late application for a degree or certificate or for deficiency or special examinations 2. Deficiency or special examinations 3. Renewal of application for any degree or certificate	3.00 3.00 1.00
(e)	Student Activities (payable annually) 1. For all students, Columbia Dental Review 2. For sophomores, juniors, and seniors, junior membership in the American Dental Association	1.50 3.00 .50
(f)	Case Rental For sophomores, juniors, and seniors, rental for one instrument case, for each semester	2.50

(g) Rebates

 The University fee and the fee for application for any degree or certificate shall not be subject to rebate.

2. If a student withdraws from the School a partial return of tuition fee may be

authorized by the Registrar.

When a rebate is allowed for the discontinuance of courses or withdrawal from the University, such rebate will be reckoned from the day upon which the Registrar receives notice from the student.

Required of each student to cover material and breakage in the laboratories and clinic. The deposit for breakage includes apparatus to replace broken articles or articles not returned at the close of the course; any chemicals not in the kit of chemicals supplied to each student, or additional quantities of chemicals beyond this allowance; and service in washing apparatus or work by a mechanic. Refund of any balance will be made upon the completion of the prescribed course or withdrawal from the School.

Acceptance Fee. Within two weeks after an applicant has been notified that his application has been accepted, he must notify the Dean that he intends to matriculate and accompany his communication with a check or money order for \$50, payable to Columbia University. This acceptance fee will belong to the University and, if he does not register at the School for the specified session, it will not be returned. If he registers at the School at the next enrollment of entering students, the amount of the acceptance fee will be deducted from his tuition fees for that session.

Instruments and Supplies. Each student is required to supply himself with instruments as specified in the official instrument list. The purchase from the University of instruments in original package outfits has been made compulsory, and unauthorized or incomplete equipment will not be accepted by the instructors. All technic material and regular supplies must be purchased from the University upon an order from the instructor. The students will not be allowed to purchase more than is required to complete a case. The quantity and quality are selected with a view to the best possible results and conservation of the student's best interests.

Microscopes. All students entering the School of Dental and Oral Surgery are required to provide themselves with microscopes of a satisfactory type. A microscope of standard make fitted with the following attachments will fill the requirements:

Triple nosepiece Abbe condenser 10x and 6x oculars 16 mm. and 4 mm. objectives

Oil immersion lens

The cost of a suitable reconditioned microscope varies from \$60 to \$100, depending on the make and model. The standard price of new microscopes is \$155. Each student should also provide himself with a substage lamp. During the national emergency it is possible to rent microscopes from the University Book Store at a rental fee of \$20 for an academic year.

Lockers. Each student will be assigned a locker on entering and will be required to use a combination lock as prescribed by the School.

ESTIMATED EXPENSES

Following is an itemized estimate of the average expenses of a full-time student for an academic year in the School of Dental and Oral Surgery exclusive of travel, clothing, amusements, charity, organizations, and sundries. These items are, of course, variable, but should not be overlooked in estimating the total expense. The tuition, room, board, books, and laundry figures are based upon the rates which prevailed during 1942–1943 and can be accepted as applicable in general for the year 1944–1945 unless national economic changes require their alteration.

							Average	Minimum
Tuition and fees							\$555.00	\$530.00
Room							235.00	175.00
Board							325.00	250.00
Books							80.00	40.00
Instruments (see below)	٠.						200.00	200.00
Laundry							50.00	36.00
								
							\$1,445.00	\$1,231.00

The approximate cost of instruments for the four-year course is \$650 plus the cost of the microscope. It may be necessary to rent some instruments from the University. Instruments are to be paid for at the opening of the academic year. The cost of books will vary, depending upon the choice made from the selection offered.

The government lends books and instruments to men in the Army Specialized and Navy Collegiate Training Programs.

REQUIREMENTS FOR PROMOTION

1. A student may be admitted to the second, third, or fourth year of the dental curriculum only upon the recommendation of the class Faculty under which he has studied during the preceding year.

2. The Faculty of the School of Dental and Oral Surgery reserves the right to refuse readmission or promotion to any student who is believed for any reason to be

unsuited to the conditions of study in this school.

Students are classified for readmission or promotion under the following headings:

- I. Recommended for advancement
 - a) Unconditionally
 - b) Conditionally
- II. Recommended for readmission to the same class
- III. Recommended neither for advancement nor for readmission to the same class
 - a) Because of failure
 - b) Those who fall under paragraph 2 of rules for advancement of students

GRADING OF STUDENTS

The following grade equivalents are used: A, excellent; B, good; C, fair; F, failure.

REQUIREMENTS FOR GRADUATION

In addition to complying with the requirements for admission and to completing the required work of the curriculum, each candidate for the degree of Doctor of Dental Surgery must present satisfactory evidence as required by law of good moral character and of having attained the age of twenty-one years. If the candidate shall have been admitted to advanced standing, he must have spent not less than four academic years or their equivalent in approved medical or dental colleges in the study of the subjects making up the curriculum of the School of Dental and Oral Surgery.

NATIONAL BOARD OF DENTAL EXAMINERS

The National Board of Dental Examiners provides an examination in the theory of the science of dentistry. The clinical examination, in every instance, is reserved for the state examining board. A certificate of qualification will be issued to each candidate approved by the National Board when the candidate has been in actual practice for three years after his graduation and has submitted new and satisfactory evidence of his moral and ethical standards of professional conduct. To date the following states have dental laws permitting their licensing authorities to recognize the certificate of qualification of the National Board of Dental Examiners: Alabama, Connecticut, Delaware, Indiana, Iowa, Illinois, Kansas, Maine, Minnesota, Nebraska,

Pennsylvania, South Dakota, and Virginia.

Only such undergraduates as may be certified by their respective deans shall be eligible to the National Board examinations. The examinations are held in two separate parts. Part I, which is open to undergraduate candidates who have met the predental requirements and have successfully completed the first two years of work in an approved dental school, consists of a written examination in the following sciences: anatomy, general and dental; bacteriology; physiology; general pathology; histology, general and dental, including embryology; physiological chemistry and metallurgy. Part II, which is open to undergraduate candidates who have passed Part I and have successfully completed the senior year or are eligible for the final examinations of the senior year in an approved dental school, consists of a written examination in each of the following subjects: operative dentistry; materia medica and therapeutics; prosthetic dentistry, including partial and full denture, fixed and removable bridgework, and crown construction; oral and dental surgery; orthodontia, radiology, jurisprudence and ethics; oral pathology and anesthesia. Usually the examinations are given twice a year, in January and May. Application should be made to Gordon L. Teall, D.D.S., Secretary of the National Board of Dental Examiners, Hiawatha, Kansas.

LICENSE TO PRACTICE DENTISTRY IN NEW YORK STATE

Those desiring to take the New York State Board examinations are advised to address the Chief of Professional Examinations Bureau, New York State Department of Education, Albany, New York. All applications for admission to the examinations should be completed at least fifteen days before the examinations begin.

The examinations are conducted by the Department, and answer papers are read and marked by the Board, who know the candidate only by number. The subjects

of the licensing examinations are anatomy, chemistry and metallurgy, operative dentistry and radiography, therapeutics and materia medica, physiology and hygiene, oral surgery, pathology and bacteriology, prosthetic dentistry, and histology. The operative and prosthetic subjects are divided into theory and practice. The

minimum standing required in each subject is 75 percent.

The State Department of Education will admit conditionally to the examinations in anatomy, physiology, chemistry and metallurgy, and histology, applicants over nineteen years of age who are of good moral character, who are citizens of the United States or have declared the intention of becoming citizens in accordance with the law, and who are certified as having successfully completed the first two years of the required course in a registered dental school.

LICENSE TO PRACTICE DENTISTRY IN NEW JERSEY

Those desiring to take the examinations of the State Board of Registration and Examination in Dentistry of New Jersey must obtain from the Bureau of Credentials, Department of Public Instruction, Trenton, New Jersey, preferably before entering a dental college but not later than two months after matriculation, a dental student qualifying certificate. This is in addition to the New York State dental student qualifying certificate. Applicants for the New Jersey licensing examinations must file a preliminary application by March 15 for the June examinations or by September 1 for the December examinations.

FELLOWSHIPS, SCHOLARSHIPS, AND PRIZES

Recipients of University financial aid in excess of tuition, whether in the form of fellowships, scholarships, or other grants, will be asked to reside in the University Residence Halls unless exempted by the appropriate Dean with the approval of the President upon the presentation of adequate reasons for living elsewhere.

Two Ellis Fellowships are awarded annually to qualified graduates of any of the colleges of recognized rank in the state of Vermont. The holders of these fellowships may pursue resident graduate studies under any one of the graduate schools maintained by the University, and are eligible for reappointment for not more than two additional years, with the proviso that a holder of the fellowship who is a student in medicine may be eligible for reappointment for not to exceed three additional years. The annual stipend is \$1,600. Applications should be submitted on or before March 1 on blanks to be filed with the Secretary of the University.

Three scholarships of tuition value in the School of Dental and Oral Surgery are awarded annually. These scholarships are open to students from outside the metropolitan area whose records of scholarship and special fitness for dentistry make them

particularly desirable to the School.

A prize known as the Ella Maria Ewell Medal is awarded annually to that student of the School of Dental and Oral Surgery who, in the judgment of the Faculty, is most proficient in some subject of dentistry. The branch of dentistry for which the award is made is determined by the executors of the will of Grover C. Beckwith-Ewell.

The Van Woert Scholarship Fund was established by the alumni of the School of Dental and Oral Surgery in 1940. The award, the income from \$1,000, is given

annually to a senior student in the dental school who stands high in scholastic attainments, in personal character, in potentiality of being a credit to Columbia University and the dental profession, and who is in need of financial aid.

The Alumni Association makes an annual award of the Rowe-Wiberg Medal to the senior student who has shown the greatest proficiency in prosthetic dentistry.

The E. D. Newman award is made annually by the Alpha Omega Fraternity to the member of the graduating class who has received the highest scholastic average for the entire professional course.

An annual award is made by the Sigma Epsilon Delta Fraternity to the graduating

student who, in the opinion of the Faculty, shows the greatest promise.

An annual certificate award for proficiency in dentistry for children has been established by the *Dental Columbian* of the Class of 1939.

OMICRON KAPPA UPSILON

Epsilon Epsilon chapter of Omicron Kappa Upsilon, national honorary fraternity, was chartered in the School of Dental and Oral Surgery in 1934. The purpose of this organization is to recognize and honor scholarship and, especially, character of outstanding quality in members of the senior class. The leading 12 percent of the graduating class is eligible for election each year.

THE WILLIAM JARVIE SOCIETY

The William Jarvie Society for Dental Research is a non-secret, dental honor society open to sophomores, juniors, and seniors, membership in which is based upon scholarship and interest in dental research. The society was organized in the School of Dental and Oral Surgery in 1920 and named after Dr. William Jarvie because of his wide interest in the promotion of dental research. The society aims to promote the spirit of research among the students.

THE DENTAL ABSTRACT SOCIETY

The Dental Abstract Society is open to all students and staff members who are interested in current dental literature. Monthly meetings are held, at which abstracts of selected articles from current periodicals are read and discussed.

THE ASSOCIATION OF THE ALUMNI OF THE SCHOOL OF DENTAL AND ORAL SURGERY

President, Louis Citron, D.D.S. Vice-President, Herman Scheckman, D.D.S. Secretary, Donald Waugh, D.D.S. Treasurer, Hannah J. Appel, D.D.S. Editor, Louis I. Abelson, D.D.S.

Any graduate, former student, Faculty member, or administrative officer of the School of Dental and Oral Surgery is eligible to membership in the Association of the Alumni of the School of Dental and Oral Surgery of Columbia University.

CURRICULUM

By utilizing the summer periods, the work of the four academic years will be covered in three calendar years during the national emergency.

Subject	Trimester Credits	Lecture Hours	Lab. or Clinic Hours	Total Hours
FRESHMAN YEAR:				
Anatomy				
Embryology	2	20		20
Gross	15	60	262	322
Microscopic	8	38	126	164 6 0
Neuro	4 6	60 18		113
Oral	8		95 105	140
Histology, oral	2	35 7	61	68
Physiology	10	56	148	204
,,		_		
SOPHOMORE YEAR:	55			1,091
Bacteriology	7	40	90	130
Crown and bridge	4	10	85	95
Dental materials	2		40	40
Oral hygiene	2	20		20
Operative dentistry	9	20	220	240 200
Periodontology	1 1	70	30	30
Pharmacology	6	40	60	100
Prosthetic dentistry	10	20	210	230
Psychopathology	I	10		10
Radiology	1	10		10
Surgery, Oral	2	20		20
JUNIOR YEAR:	56			1,125
Anatomy, applied	1	10		10
Crown and bridge Technic	6	10		
Clinic	0 1	10	105	115 30
Porcelain	2		30 60	60
Round wire	1		30	30
Diagnosis, dental	4	30	30	60
Operative dentistry	11	20	300	310
Orthodontics	5	20	75	95
Pathology, oral	4	20	60	80
Periodontology	I		30	30
Pharmacology, applied	I	10		10
Prosthetic dentistry	7	20	150	170
Public health	1	20		20
Radiology	I		30	30 40
Theory and practice	2 2	10 20	30	40 20
		20		
SENIOR YEAR:	51			1,110
Crown and bridge	6	10	150	160
Diagnosis, dental	_		30	30
Operative dentistry	13	20	330	350
Periodontics	4	10	90	100
Periodontology	3 7	20 60	25	45 8o
Prosthetic dentistry	6	10	150	160
Surgical prosthesis	ī		30	30
Surgery, oral	4	40	60	100
Theory and practice		10		10
Senior electives	46			1,065
Oral pathology				
Oral surgery	• • • • • • • • • • • • • • • • • • • •	15		15 30
Orthodontics		30	30	30

COURSES OF INSTRUCTION

For purposes of instruction the work of each academic year is scheduled in three sessions which are designated as First, Second, and Third. The unit of credit signifies approximately three academic hours of work a week for one session. For classroom work this means one hour a week in class and an average of two hours of home work. For laboratory or clinical work it represents three academic hours of work a week in the School.

For a detailed statement of the content of each course, the student is referred to the departmental statements which follow. Courses numbered from 100 to 199 are open to candidates for the degree of Doctor of Dental Surgery in the first and second academic years. Courses numbered from 200 upward are open to candidates for the degree of Doctor of Dental Surgery in the third and fourth academic years.

The outline on page 27 shows the work required of a candidate for the degree of Doctor of Dental Surgery. The University reserves the right to make such changes in the program of studies at any time as experience may prove desirable.

Courses enclosed in brackets are not given in 1944-1945.

ANATOMY

Anatomy 101—Oral anatomy. Freshman year. 6 credits. Professors Diamond and Applebaum and assistants.

Lectures, recitations, and laboratory on the growth and development of the jaws and face and the individual teeth, the structural formation of the teeth, the anatomy of the surrounding and related tissues of the oral cavity, and the morphology of the teeth.

Anatomy 115—Oral histology and embryology. Freshman year. 2 credits. Professors Bodecker and Lefkowitz and Dr. Thomas.

Lectures and laboratory on the microscopic structures of the oral tissues and the application of this knowledge to technical dentistry.

Anatomy 150—Microscopic anatomy. Freshman year. 8 credits. Professors P. E. Smith, Copenhaver, Engle, Severinghaus, and assistants.

Lectures, conferences, and laboratory.

This course is the same as Anatomy 101F in the Medical School.

Anatomy 151—Gross anatomy. Freshman year. 15 credits. Professor Rogers and assistants.

Lectures, conferences, and laboratory.

Anatomy 152—Embryology. Freshman year. 2 credits. Professors Detwiler, Copenhaver, Rogers, and Smelser.

Lectures and demonstrations dealing with the dynamics of vertebrate development, with particular reference to mammals and man.

Anatomy 153—Neuroanatomy. Freshman year. 4 credits. Professors ELWYN and BRICKNER, Drs. SALZER, LYONS, and MANGINELLI.

Lectures and demonstrations on the gross anatomy, structure, and functions of the central nervous system. This course is equivalent to *Anatomy 106S* in the Medical School.

Anatomy 252—Applied anatomy of the head and neck. Junior year. 1 credit. Professor Shapiro.

Lectures and demonstrations. A review course with special application to the problems of the major fields of dentistry.

BACTERIOLOGY

Bacteriology 151—General medical bacteriology and immunology. Sophomore year, 4 credits. Dr. Clark and assistants.

Lectures, conferences, and laboratory.

Bacteriology 152—Principles of bacteriology, epidemiology, infection, immunity, serum diagnosis, and specific therapy. Sophomore year. 3 credits. Professors Dochez and Jungeblut and staff.

This course is identical with Bacteriology 105F in the Medical School except that lectures on the mouth bacteria are substituted for several of those of the medical series.

[Bacteriology 253—Bacteriology and etiology of dental disease. Junior year. I credit.

Not given in 1944-1945.]

Lecture-demonstrations on oral bacteriology and experimental research in problems of dental disease.

BIOCHEMISTRY

Biochemistry 150—Introductory biochemistry. Freshman year. 8 credits. Professor Karshan and assistants.

Lectures and laboratory. A study of the chemistry of life processes with special reference to the animal organism.

CROWN AND BRIDGE

Crown and Bridge 105—Crown and bridge lectures and technic. Sophomore year. 4 credits. Professors HoyT and McLaughlin and Dr. Junemann.

Lectures on the technical procedures in crown and bridgework with practical application, and the construction of bridges and crowns on technic models.

Crown and Bridge 205—Crown and bridge lectures and technic. Junior year. 6 credits. Professors Hoyt and McLaughlin and Dr. Junemann.

Lectures on the technical procedures in crown and bridgework with practical application, and the construction of bridges and crowns on models and extracted teeth.

Crown and Bridge 206—Crown and bridge clinic. Junior year. 1 credit. Professor McLaughlin and Dr. Junemann.

Clinical construction of elementary crown and bridgework. First given in 1943.

Crown and Bridge 207—Porcelain technic. Junior year. 2 credits. Professor McLaughlin.

Uses of porcelain; construction of porcelain jacket crown on technic model; staining and glazing of artificial teeth.

Crown and Bridge 209—Round wire technic. Junior year. 1 credit. Dr. Zerr. Lectures and laboratory in the construction of round wire clasps and lugs for partial dentures.

Crown and Bridge 210—Crown and bridge lectures. Senior year. 1 credit. Professor Hoyr.

Lectures and conferences on various types of bridgework.

Crown and Bridge 211—Crown and bridge clinic. Senior year. 7 credits. Professors HOYT, McLaughlin, and G. P. Smith and Drs. Boyd and Junemann. Clinical construction of crown and bridgework.

DENTAL MATERIALS

Dental Materials 126—Physical properties of dental materials. Sophomore year. 2 credits. Dr. Junemann.

Metallurgical processes and apparatus and physical and chemical properties of the metals and other materials used in dentistry. Lectures and laboratory.

DIAGNOSIS

Diagnosis 212—Dental diagnosis lecture and clinic. Junior year. 4 credits. Professors Ziskin, Stowe, Rosenstein and Zegarelli and Dr. Cuttita.

Lectures, conferences, and clinical practice in oral examination and charting, history-taking, methods of pulp testing, dental x-ray diagnosis, oro-dental symptomatology, and occlusal dysharmonies.

Diagnosis 213—Dental diagnosis clinic. Senior year. I credit. Professors ZISKIN, STOWE, ROSENSTEIN and ZEGARELLI and Dr. CUTTITA.

Continuation of clinic of Diagnosis 212.

MEDICINE

Medicine 278—General survey of medicine. Senior year. 7 credits. Professor McBeath and associates.

Lectures and conferences covering phases of general medicine pertinent to dentistry and clinics for small groups in which the patients are studied for correlation of systemic and dental conditions

OPERATIVE DENTISTRY

Operative Dentistry 131—Elements of operative dentistry. Sophomore year. 9 credits. Professors Hartman, Oman, Lindig, and M. R. Miller and Dr. Hunt and assistants.

Lectures, laboratory, demonstrations, and clinical practice in operative dentistry. The use and care of operative instruments and materials. The technic of cavity preparation, fillings, and gold inlays.

Operative Dentistry 233—Operative clinical practice. Junior year. 11 credits. Professors Hartman, Oman, Lindig, and M. R. Miller and Drs. Hunt, Thomas, and assistants.

Lectures, laboratory, clinical practice, and demonstrations in the various operative procedures.

Operative Dentistry 234—Advanced operative clinical practice. Senior year. 13 credits. Professors Hartman, Oman, Lindig, M. R. Miller and Drs. Hunt, Thomas, and assistants.

Lectures, clinical practice, and demonstrations in root-canal therapy and advanced operative dentistry.

ORAL HYGIENE

Oral Hygiene 122—Oral hygiene lectures. Sophomore year. 2 credits. Professor Leonard.

Lectures and conferences on scientific findings relating to the causes and prevention of the common diseases and defects of the teeth.

ORTHODONTICS

Orthodontics 241—Principles of orthodontics. Junior year. 5 credits. Professors Waugh, Barber, Callaway, Murphy, Totten, and staff.

Lectures, demonstrations, and laboratory. Orthodontic fundamentals with special emphasis on prevention in orthodontics by the early recognition and correction of the predisposing factors. Laboratory instruction in the fundamental technic of making plain labial and lingual arches, space retainers, and habit breakers.

Orthodontics 243—Orthodontic elective. Senior year. No credit. Professor WAUGH.

Clinical orthodontics. Offered to seniors who are eligible for electives.

PATHOLOGY

Pathology 150—General and special pathology. Sophomore year. II credits. Professors Jobling and Sproul and assistants.

A study of important pathological conditions, demonstrated by museum specimens and a very complete series of histological preparations.

Pathology 246—Oral pathology. Junior year. 4 credits. Professors Cahn and Bartels.

Lectures, conferences, and laboratory work on the pathology of the diseases of the jaws, mouth, and teeth.

Pathology 247—Oral pathology seminar. Senior year. No credit. Elective. Professor Cahn.

Conferences on the clinical application of oral pathology.

PEDODONTICS

Pedodontics 202—Pedodontics, lectures and clinic. Senior year. 4 credits. Professors McBeath, Stowe, and Rosenstein.

Lectures and conferences on operative dental procedures for children, the handling of the child, and the application of present knowledge of preventive dentistry. Clinical work includes history-taking, prophylaxis, and restorative procedures adapted to deciduous and early permanent dentitions.

PERIODONTOLOGY

Periodontology 151—Periodontia clinic. Sophomore year. 1 credit. Professors Leonard, Holliday, Beube, and Dr. Friedlander.

Lectures, laboratory, and clinical work on personal dental hygiene, dental prophylactic technic, and simple periodontia.

Periodontology 251—Periodontia clinic. Junior year. 1 credit. Professors Leonard, Holliday, Beube, and Dr. Friedlander.

Lectures and clinical work in the diagnosis and treatment of periodontoclasia.

Periodontology 252—Periodontology lectures. Senior year. 2 credits. Professors Leonard and Hirschfeld and Dr. Merritt.

Lectures and conferences on the theory and practice of periodontology.

Periodontology 253—Periodontia clinic. Senior year. 1 credit. Professors Leonard, Holliday, Beube, and Dr. Friedlander.

Advanced work in the clinical diagnosis and treatment of periodontoclasia.

PHARMACOLOGY

Pharmacology 150—General pharmacology. Sophomore year. 6 trimester credits. Drs. Beaven and Humbert.

Lectures, conferences, and laboratory. In this course the pharmacological action of drugs on man and lower animals is studied. Short courses in pharmacy and prescription writing are included.

Pharmacology 250—Applied pharmacology. Senior year. 1 credit. Dr. Humbert.

Lectures and conferences on drugs and other therapeutic agents used in dentistry.

PHYSIOLOGY

Physiology 150—Mammalian physiology. Freshman year. 10 credits. Professor Gregersen and assistants.

Lectures, conferences, and laboratory. This course is equivalent to *Physiology 101* in the Medical School, with medical and dental students taking the lectures together.

PROSTHETIC DENTISTRY

Prosthetics 157—Prosthetic lectures and technic. Sophomore year. 10 credits. Professors Hoyt, Young, and McKenzie and Dr. Junemann.

Lectures and technical procedures in full and partial denture construction.

Prosthetics 260—Prosthetic lectures. Junior year. 2 credits. Professors Young and G. P. Smith.

Examination, classification, application of anatomical considerations, and clinical procedure in full and partial denture construction.



THE MEDICAL CENTER, INCLUDING THE SCHOOL OF DENTAL AND ORAL SURGERY WING AT THE RIGHT



Prosthetics 261—Prosthetic clinic. Junior year. 5 credits. Professors Young and McKenzie and Dr. Junemann.

Clinical construction of full and partial dentures.

Prosthetics 263—Prosthetic clinic. Senior year. 6 credits. Professors Hoyt, Young, McLaughlin, G. P. Smith, and McKenzie and Drs. Junemann and Beder.

Clinical construction of full and partial dentures.

Prosthetics 264—Prosthetic lectures. Senior year. 1 credit. Professor Hoyr and guest lecturers.

A series of lectures by outstanding local practitioners in the prosthetic field on clinical considerations in partial denture diagnosis, design, and construction.

Prosthetics 265—Surgical prosthesis. Senior year. 1 credit. Dr. Beder.

Lectures and technical procedures in maxillofacial and surgical prosthesis.

PSYCHIATRY

Psychiatry 150—Psychopathology. Sophomore year. 1 credit. Professor Lewis.

Lectures in psychobiology; the growth, instinctive and emotional development of the individual from birth to adulthood; personality traits and patterns; personality factors in physical illness; types of abnormal behavior based on brain pathology, on functional processes or habit disturbances. Principles of mental hygiene and environmental adjustments.

PUBLIC HEALTH

Public Health 222—Principles of public health. Junior year. 2 credits. Professors Mustard, East, Fertig, and staff.

Survey course in the theory and practice of preventive medicine, dentistry, and public health. Fundamental principles of administration, statistics, epidemiology, industrial hygiene, and sanitation. The principles and problems of dental public health practice are emphasized.

Public Health 223—Epidemiology and biostatistics. Elective, senior year. Six hours a week for 8 weeks. Professor Fertig, Dr. Greenberg, and staff.

A lecture and laboratory course in introductory vital statistics. Offered to seniors who are eligible for electives.

RADIOLOGY

Radiology 165—Oral radiology conference. Sophomore year. 1 credit. Professor HOLLIDAY.

Lectures, readings, and discussions on topics relative to oral radiology.

Radiology 267—Oral radiology practice. Junior year. 1 credit. Professor Holliday and assistants.

Practice in exposing, processing, and mounting dental radiographs.

SURGERY

Surgery 168—Principles of surgery. Sophomore year. 2 credits. Professor Parker.

Lectures and conferences on principles of surgery and a consideration of general surgical diseases.

Surgery 270—Oral surgery. Junior year. 2 credits. Professors H. S. Dunning, Berger, Parker, McCaffrey, Schroff, and assistants.

Lectures, conferences, demonstrations, and clinical practice on local and general anesthesia and the removal of teeth.

Surgery 272—Oral surgery. Senior year. 4 credits. Professors H. S. Dunning, Berger, Parker, McCaffrey, Schroff, Apgar, and assistants.

Lectures and conferences on oral and maxillofacial surgery and general anesthesia.

Clinical practice in the removal of teeth and in local and general anesthesia. Clinical demonstrations in the diagnosis and operative procedures in the treatment of pathological conditions and injuries about the face, jaws, and oral cavity.

Surgery 274—Oral surgery demonstrations. Senior year. No credit. Elective. Professors H. S. Dunning, Berger, Parker, and McCaffrey.

Presentation and demonstrations of oral pathological and maxillofacial lesions.

THEORY AND PRACTICE OF DENTISTRY

Theory and Practice 281—Dental ethics and practice management. Junior year. 1 credit. Professor W. B. Dunning.

Lecture and conference course on dental ethics, economics, office conduct and routine.

Theory and Practice 282—Dental jurisprudence. Junior year. 1 credit. Professor W. B. Dunning.

Lecture and conference course in dental jurisprudence.

Theory and Practice 283—Dental history. Senior year. 1 credit. Dr. Leak.

Lecture and conference course in dental history.

Theory and Practice 284—Senior thesis. Professor Holliday.

Each senior is required to present a thesis representing original reading, scientific research, or both, to be completed under the immediate supervision of Professor HOLLIDAY and with the help of an adviser in the field selected, and with the final approval of the Research Committee.

Theory and Practice 285—Comprehensive case. Junior and senior years. Professor Holliday and committee.

Each student is assigned a case for which he performs all the dental services: taking of X-ray negatives, treatment planning, surgery, and reparative and restorative procedures. The services are carried out in the various clinical divisions, where grades are entered for the student toward the fulfillment of his clinical requirements. The oral examination accompanying the inspection of the completed case aims to correlate the teaching of the entire course.

TEXTBOOKS

The following list includes most of the books recommended. For the convenience of those who wish to determine their expenses in advance, there are appended the lowest prices at which the books, in cloth binding, can be purchased in New York City. These prices are liable to fluctuation. As a rule, the latest editions only of the textbooks should be purchased. Students are warned against buying any books until specifically advised by the departments concerned.

Anatomy. Gross anatomy. Required: Gray, Anatomy, \$12.00; Rogers, Dissecting Manual, \$.75. Recommended but not required: Cunningham, Manual of Practical Anatomy, \$12.75 a set; Cunningham, Textbook of Anatomy, \$12.00; Piersol, Human Anatomy, \$10.00.

Applied anatomy. Required: Shapiro, Applied Anatomy of the Head and Neck,

\$5.50.

Embryology. Required: Arey, Developmental Anatomy, \$6.75.

Microscopic anatomy. Required: Bailey, Textbook of Histology (9th ed.), \$6.00. Neuroanatomy. Required: Strong and Elwyn, Human Neuroanatomy, \$6.00.

Oral anatomy. Required: Diamond, Dental Anatomy (2d revised ed.), \$4.50. Oral histology and embryology. Required: Bodecker, Fundamentals of Dental Histology and Embryology (Columbia ed.), \$4.00; Laboratory Manual and Drawing Notebook, Oral Histology and Embryology, \$1.00.

- Bacteriology. Required: Jordan and Burrows, Textbook of Bacteriology, \$6.00. Recommended but not required: Gordon, et al, Dental Science and Dental Art, \$9.50; Topley and Wilson, Principles of Bacteriology and Immunity (2d ed.), \$12.00.
- BIOCHEMISTRY. Required: Everett, Medical Biochemistry, \$5.75; Karshan, Laboratory Manual, \$.75. Recommended but not required: Bodansky, Introduction to Physiological Chemistry, \$4.00; Hawk and Bergeim, Practical Physiological Chemistry, \$8.00.
- CROWN AND BRIDGE. Required: Tylman, Crown and Bridge Prosthesis, \$10.00; Hoyt et al, Crown and Bridge Syllabus, \$.75. Recommended but not required: Le Gro, Ceramics in Dentistry, \$7.50; Felcher, Porcelain in Dentistry, \$9.00.
- Dental Materials. Required: *Physical Properties of Dental Materials*, Bureau of Standards Circular C 433, United States Government Printing Office, \$.75.
- Diagnosis. Required: Differential Diagnosis of Mouth Diseases, \$4.00. Mimeographed material furnished by the Department.
- MEDICINE. Required: Yater, Fundamentals of Internal Medicine, \$9.00. Suggested but not required: Cecil, Textbook of Medicine, \$9.50; Comroe, Collins, and Crane, Internal Medicine in Dental Practice, \$5.50; Meakins, Practice of Medicine, \$10.00.
- OPERATIVE DENTISTRY. Required: Black, Operative Dentistry, Vols. II and III, \$5.50 each. Mimeographed notes are also furnished by the Department.

ORAL HYGIENE. Required: Gordon, Dental Science and Art, \$9.50.

ORTHODONTICS. Recommended for collateral reading: Strang, Textbook of Orthodontia (2d ed.), \$10.00; Dewey and Anderson, Practical Orthodontia (15th ed.), \$8.50; McCoy, Applied Orthodontia (5th ed.), \$4.50; Salzman, Principles of Orthodontics, \$10.00.

PATHOLOGY. Required: W. A. D. Anderson, Synopsis of Pathology, \$6.00.

ORAL PATHOLOGY. Required: Cahn, Pathology of the Oral Cavity, \$5.50.

Pedodontics. Required: McBride, Juvenile Dentistry, \$6.50.

Periodontology. Suggested but not required: Goldman, Periodontia; Hirschfeld, The Toothbrush; Merritt, Periodontia.

Pharmacology. Required: Sollman, Manual of Pharmacology, \$8.75. Recommended but not required: Accepted Dental Remedies, \$1.00. Bastedo, Materia Medica, Pharmacology, Therapeutics and Prescription Writing, \$6.50; Blayney, Dental Pharmacology, \$4.00; Cushny, Pharmacology and Therapeutics, \$6.50; McGehee, Dental Pharmacology, \$5.00.

Physiology. Required: Bard, MacLeod, Physiology in Modern Medicine, \$10.00; Laboratory Manual, \$.75.

PROSTHETIC DENTISTRY. Required: Anthony, American Textbook of Prosthetic Dentistry, \$11.00; Swenson, Complete Dentures, \$10.00; Young et al, Syllabus, \$1.60. Recommended but not required: Frahm, Principles and Technics of Full Denture Construction, \$7.00; E. Kennedy, Partial Denture Construction, \$7.50; Nichols, Prosthetic Dentistry, \$12.50.

PSYCHIATRY. Recommended but not required: Henderson and Gillespie, Textbook on Psychiatry, \$6.00; Hinsie, Syllabus of Psychiatry, \$2.50; Muncie, Psychobiology and Psychopathology, \$8.00; Noyes, Modern Clinical Psychiatry, \$5.00; Strecker, Fundamentals of Psychiatry, \$3.00; Strecker and Ebaugh, Practical Clinical Psychiatry, \$5.00; Weiss and English, Psychosomatic Medicine, \$8.00.

Public Health. Recommended but not required: Salzmann, Principles and Practice of Public Health in Dentistry, \$4.00.

Radiology. Required: Ennis, Dental Roentgenology (3d ed.), \$6.50.

Surgery. Required: Berger, Principles and Technique of Oral Surgery, \$7.00; Fischer and Reithmuller, Local Anesthesia, \$4.50; Homans, Textbook of Surgery, \$8.00. Recommended but not required: Berger, Principles and Technique of the Removal of Teeth, \$7.50; Flagg, Art of Anesthesia, \$5.00; Parker, Synopsis of Traumatic Injuries of the Face and Jaws, \$4.50; Stout, Human Cancer, \$10.00.

Dictionary. Required: Stedman, Medical Dictionary, \$7.50. Recommended but not required: W. B. Dunning and S. E. Davenport, A Dictionary of Dental Science and Art, \$6.50. Choice of: Dorland, Illustrated Medical Dictionary, \$7.50; Gould, Medical Dictionary, \$7.50.

REGISTER OF STUDENTS

JANUARY 6, 1944 TO SEPTEMBER 30, 1944

GRADUATES—DECEMBER 23, 1943	Mostofsky, Paul Brooklyn, N. Y.
Bell, Harold Malcolm Bridgeport, Conn.	B.S., College of the City of New York, 1940 Mufson, Abraham Isaac New York City
B.S., Yale, 1939 Berck, Leo New York City	B.S., New York University, 1938 Nahoum, Henry Isaac Brooklyn, N. Y.
College of the City of New York	A.B., Brooklyn, 1940
Bevilacque, Thomas Joseph Brooklyn, N. Y. A.B., Columbia, 1939	Nief, Stanley Frederick Teaneck, N. J. A.B., Cornell, 1940
Bongiorno, Alfred Michael Brooklyn, N. Y. A.B., Columbia, 1939	Norian, Henry Karop Thompsonville, Conn. B.S., Trinity (Conn.), 1941
Brzustowicz, Stanislaw Henry Brooklyn, N. Y. B.S., St. John's (N. Y.), 1940	Piper, Albert Omar Waterville, Maine B.S., Colby, 1936
Buchsbaum, Robert Bernard New York City	McGill Medical School
A.B., College of the City of New York, 1940 Bushel, Arthur Brooklyn, N. Y.	Plotnick, Samuel New York City
A.B., Brooklyn, 1940	A.B., Columbia, 1940 Reilly, John Temple, Jr. St. Albans, N. Y.
Caltabiano, Henry Ignazio Brooklyn, N. Y.	B.S., Fordham, 1940
New York University Carlucci, Joseph Patrick New York City	Rifkin, Meyer Yonkers, N. Y.
B.S., Notre Dame, 1940	New York University Saxon, Alfred Elliot New York City
Catalano, Philip Patrick Brooklyn, N. Y.	Saxon, Alfred Elliot New York City New York University
B.S., St. John's (N. Y.), 1940	Schneer, Richard Moses Far Rockaway, N. Y.
Corcoran, John William Central Islip, N. Y.	A.B., Virginia, 1940
A.B., Columbia, 1940 Daglian, Kourken Arshag New York City	Senderowitz, Samuel Brooklyn, N. Y.
B.S., College of the City of New York, 1941	A.B., New York University, 1939 Shattan, Boaz Kingston, N. Y.
Devlin, Francis Patrick Jersey City, N. J.	Shattan, Boaz Kingston, N. Y. A.B., Columbia, 1940
B.S., St. Peter's (N. J.), 1940	Shpuntoff, Harry New York City
Fiasconaro, Joseph Eugene Corona, N. Y.	B.S., College of the City of New York, 1939
B.S., College of the City of New York, 1940 Flashner, Jesse New York City	Soraci, Frank Nicholas Yonkers, N. Y.
A.B., New York University, 1940	B.S., Manhattan, 1940 Taggard, Joseph Franklyn New York City
Friedman, Irving Brooklyn, N. Y.	Taggard, Joseph Franklyn New York City B.S., Manhattan, 1939
New York University	Cornell Medical School
Gutcho, Sanford Joseph Brooklyn, N. Y.	Tannenbaum, David New York City
A.B., New York University, 1939 Heidenreich, Irwin Paul New York City	B.S., College of the City of New York, 1934
New York University	Urbano, Armand Paul New York City B.S., Manhattan, 1939
Hirschfeld, Leonard Saul New York City	Vigersky, Harold Jersey City, N. J.
A.B., Columbia, 1941	St. Peter's (N. J.)
Kaplan, Stanley Lippmann Brooklyn, N. Y.	Wesolowski, Vincent Thomas Brooklyn, N. Y.
B.S., College of the City of New York, 1938 D.D.S., Iowa, 1942	St. John's (N. Y.)
Lifton, Simon Louis Long Island City, N. Y.	Zane, Jerome Arthur New York City New York University
A.B., Columbia, 1939	FOURTH YEAR—CLASS OF SEPTEMBER, 1944
Link, Nathan Harold Bradenton, Fla. B.S., Bowling Green Business University, 1938	Amontree, Edward Joshua New York City
Lipson, Louis Staten Island, N. Y.	A.B., Columbia, 1941
B.S., Columbia, 1939	Bershadsky, Sol Charles Bayonne, N. J.
Malgieri, Anthony Mario White Plains, N. Y.	A.B., New York University, 1940
B.S., Fordham, 1940	Bibbo, James Vincent, Jr. New York City
Massin, Murray Aaron New York City A.B., Michigan, 1940	A.B., Syracuse, 1941 Caulfield, Bernard Morris Bayside, N. Y.
May, Edward Joseph Brooklyn, N. Y.	B.S., St. John's (N. Y.), 1941
A.B., Columbia, 1941	Citron, Sherman Ross Brooklyn, N. Y.
Mendelson, Max New York City	A.B., Columbia, 1939
A.B., Brooklyn, 1940 Miller, William John Woodside, N. Y.	A.M., Columbia, 1940 Cole, Robert Merton Tarrytown, N. Y.
A.B., New York University, 1940	A.B., Columbia, 1942
Mondshine, Stanley Brooklyn, N. Y. A.B., New York University, 1940	Conte, Joseph Frank B.S., Manhattan, 1941 Tuckahoe, N. Y.

Rendich, Henry Joseph, Jr. Brooklyn, N. Y. Cornell, Peter Joseph B.S., St. John's (N. Y.), 1941 Rockville Centre, N. Y. DeLuke, Dominick Joseph Schenectady, N. Y. B.S., St. Peter's Col. (N. J.), 1940 Rogers, Jerome Alan New York City A.B., Vanderbilt, 1941 B.S., College of the City of New York, 1941 Brooklyn, N. Y. Dene, Ralph William Syracuse, N. Y. Sall, Hymie David A.B., Brooklyn, 1941 Desmond, Jeremiah Joseph New Haven, Conn. A.B., Syracuse, 1940 New York City Salzman, Leonard B.S., Fordham, 1939 B.S., College of the City of New York, 1941 Dorsey, John Henry Portland, Maine Sirna, Lawrence Edward New York City B.S., Bowdoin, 1941 Fookson, George B.S., St. John's (N. Y.), 1941 New York City Slusky, Melvin Brooklyn, N. Y. A.B., New York University, 1941 A.B., New York University, 1941 New York City Fusco, Fulvio Francis Smith, David Joseph Brooklyn, N. Y. B.S., College of the City of New York, 1940 New York University Jamaica, N. Y. Georgiade, Nicholas George Smith, George Allen, Jr. Port Chester, N. Y. Fordham Girling, George Wesley W. Haverstraw, N. Y. A.B., Columbia, 1942 Sweeney, James Russel A.B., Columbia, 1931 Washington, D. C. B.S., Manhattan, 1941 Brooklyn, N. Y. Gordon, Jacob Thoma, Robert Frank Lynbrook, N. Y. Brooklyn Gormley, Eugene Joseph New York City Pennsylvania B.S., Manhattan, 1940 New York University Greene, George William, Jr. Brooklyn, N. Y. Wasserman, Bernard H. Brooklyn, N. Y. B.S., Notre Dame, 1941 A.B., Brooklyn, 1941 Brooklyn, N. Y. Herlands, Robert Edward New York City Weiss, George Arthur A.B., Columbia, 1941 A.B., Brooklyn, 1941 Holliday, Paul Houghton Tenafly, N. J. THIRD YEAR-CLASS OF JUNE, 1945 B.S., Bowdoin, 1941 Hribar, George Martin B.S., Mt. St. Mary's, 1940 New York City Elmhurst, N. Y. Abelson, Jacob B.S., College of the City of New York, 1941 Hyatt, John Wesley Short Hills, N. J. Arnold, Herbert New York City A.B., New York University, 1942 A.B., Columbia, 1940 New York City Baer, Paul Nathan Kew Gardens, N. Y. Keneally, Francis Joseph A.B., Brooklyn, 1942 A.B., Fordham, 1940 Kornblueh, Frederick New York City Bartelstone, Herbert Jerome New York City A.B., New York University, 1941 B.S., College of the City of New York, 1942 Elizabeth, N. J. Kimball, W. Va. Lackey, Leon Agee Bell, Archie Harry A.B., Berea, 1941 Columbia Lavori, William Philip Benfield, James Winston Hartsdale, N. Y. Staten Island, N. Y. B.S., College of the City of New York, 1941 A.B., Syracuse, 1925 Great Neck, N. Y. Leonard, William Francis Mt. Vernon, N. Y. Blatman, Daniel Oberlin Colby Levinson, Stanley Bernard New York City Boscarelli, Ignazio Frank New York City A.B., New York University, 1940 B.S., Manhattan, 1942 McKeon, Raymond Xavier New York City Brown, William James Brooklyn, N. Y. B.S., Manhattan, 1939 Fordham Mandelberg, Philip Brooklyn, N. Y. Cain, Edward Andrew New York City A.B., New York University, 1941 B.S., Fordham, 1942 New York City Elizabeth, N. J. Monahan, Leonard John Cohen, Meyer B.S., Rutgers, 1938 B.S., Manhattan, 1940 Morris, Robert Irving Colaneri, Joseph Nicholas New York City Bangor, Maine A.B., Maine, 1941 A.B., Columbia, 1941 Hartsdale, N. Y. Muccia, Daniel Arthur New York City Conaty, Arnold Paul A.B., Columbia, 1941 Brown Natelson, Estelle Marion Brooklyn, N. Y. Daly, William Jerome Brooklyn, N. Y. New York University A.B., Columbia, 1943 Paterson, N. J. Nesse, Gerald Jack New York City Darrow, Norman A.B., New York University, 1940 A.B., Cornell, 1940 M.S., New York University, 1941 Di Salvo, Nicholas Armand New York City Orfanos, George Peter Long Island City, N. Y. B.S., College of the City of New York, 1942 Durant, Robert Edward New Bedford, Mass. Columbia Quast, William Wentworth, Jr. Boston College Freeman, Morris Columbia West Hempstead, N. Y. New York City A.B., New York University, 1942 Rawitt, Eugene Richmond Hill, N. Y. B.S., St. Peter's Col. (N. J.), 1938 Friedman, Marvin New York City A.M., New York University, 1939 A.B., New York University, 1940

Gattegno, Edgar New York City	Campbell, Paul Stine Redlands, Calif.
A.B., New York University, 1942 Goodman, Robert New York City	Redlands Castiglia, Hannibal Louis Astoria, N. Y.
A.B., New York University, 1942 Halbrecht, Irving Daniel Somerville, N. J.	Columbia Chason, Sidney Bangor, Maine
A.B., New York University, 1942 Hogan, John Daniel Highland Falls, N. Y.	A.B., Bowdoin, 1943 Chnapko, Victor Peter B.S. Long Island, 2016 New York City
B.S., Notre Dame, 1942 Horowitz, Mervin Bell New York City B.S., College of the City of New York, 1942	B.S., Long Island, 1942 Darling, Maus Vedder Stamford, Conn. A.B., Johns Hopkins, 1936
Jacobs, William Ralph A.B., Brooklyn, 1942 Brooklyn, N. Y.	Della Rocca, Vincent Paul New York City New York University
Kaplan, Benjamin New York City Cornell	De Vito, Joseph John A.B., Columbia, 1943 Brooklyn, N. Y.
Largey, John Francis New York City B.S., Niagara, 1942	Earnest, Franklin Arthur New York City A.B., New York University, 1943
Lieberman, Julius New York City	Ellison, Solon Arthur New York City
B.S., College of the City of New York, 1934	B.S., College of the City of New York, 1942
M.S., College of the City of New York, 1940	
Madden, Robert Francis Lake Placid, N. Y.	Columbia
Fordham	Fenning, Howard Rassler Middletown, N. Y.
Mandel, Irwin Daniel Brooklyn, N. Y.	A.B., Lafayette, 1942
B.S., College of the City of New York, 1942	Fitz-Gibbon, John Hamilton Holyoke, Mass.
Menasche, Salvatore Brooklyn, N. Y.	Providence
A.B., Brooklyn, 1942	Garber, Martin Aaron Providence, R. I.
Miringoff, Aaron Yale New York City	Providence
B.S., College of the City of New York, 1941	Gladue, Wilfred Harold Woonsocket, R. I.
Mitchell, Joseph James Brooklyn, N. Y.	B.S., Rhode Island State, 1943
B.S., St. John's (N. Y.), 1941	Halpert, Wesley New York City
Mohr, Irving Ward New York City	B.S., College of the City of New York, 1943
A.B., New York University, 1942	Katz, Lester Edwin New York City
Morelli, Nicholas Francis Catskill, N. Y.	New York University
A.B., Union, 1942	Kotch, Raymond Leonard New York City
Oliveri, Gaspar Anthony, Brooklyn, N. Y.	
	B.S., College of the City of New York, 1943
B.S., St. John's (N. Y.), 1942 Ostreicher, Herbert Paul	Kutscher, Austin Harrison New York City
	New York University
Jackson Heights, N. Y.	Levin, Alfred Warren New York City
A.B., Columbia, 1943	New York University
Sarkady, Lester Samuel Brooklyn, N. Y.	McElroy, Joseph Raymond Brooklyn, N. Y.
A.B., New York University, 1942	St. John's University
Shwalb, Richard Abraham Brooklyn, N. Y.	Mandel, Louis New York City
A.B., Columbia, 1943	A.B., New York University, 1943
Siegel, Fred Morris Schenectady, N. Y.	Minervini, George August Yonkers, N. Y.
Union	A.B., Columbia, 1942
Steinberg, Charles New York City	Morris, Robert Darcy Jackson Heights, N. Y.
B.S., College of the City of New York, 1941	A.B., Fordham, 1943
Stella, Armand Matthew . New York City	Moss, Melvin Lionel New York City
B.S., Manhattan, 1942	A.B., New York University, 1942
Stern, Leo, Jr. New York City	Mulcahy, Michael Joseph New York City
A.B., Columbia, 1943	
Stone, Arnold Flushing, N. Y.	B.S., St. John's University, 1943
Queens	Olinger, Donald Sundell Glen Ridge, N. J.
Tolge, Reinhold Bruno Schenectady, N. Y.	Pennsylvania
Union	Pane, John Thomas New York City
Zeh, William George Glendale, N. Y.	B.S., Fordham, 1942
B.S., Long Island, 1942	Piro, John Donald New York City
	Fordham
SECOND YEAR—CLASS OF MARCH, 1946	Rechter, Alfred New York City
Archer, William Harold White Plains, N. Y.	B.S., College of the City of New York, 1943
A.B., Fordham, 1943	Schonberg, Leon New York City
Arden, Howard Anthony New York City	College of the City of New York
B.S., Fordham, 1943	Schultz, Wilbert James, Jr. New York City
Ballin, Bert New York City	A.B., Hofstra, 1939
A.B., Oberlin, 1943	Schustak, Robert Leslie
Cali, Vincent New York City B.S., College of the City of New York, 1943	Rockaway Beach, N. Y. B.S., New York University, 1943

40	OBOMBIN C	, , , , , , , , , , , , , , , , , , , ,	
Shapiro, Robert Leonard Vermont	Springfield, Mass.	Heaphy, Charles Francis Fordham	Norwalk, Conn.
Smith, Robert Frederick A.B., Holy Cross, 1943	Manhasset, N. Y.	Heyen, Aloys Diedrich Franklin & Marshall	Lynbrook, N. Y.
Sommer, Gordon Alexander B.S., Idaho, 1940 Columbia Medical School	Utica, N. Y.	Hicks, Hugh Francis Loyola Maryland	Baltimore, Md.
Stirling, Martin Theodore A.B., Brooklyn, 1943	Brooklyn, N. Y.	Hoelzer, Robert Frederick Colgate	Hollis, N. Y.
Stone, Melvin Joseph B.S., Tufts, 1943	Dorchester, Mass.	Hosiosky, Ellen N. D.M.D., Basle (Switzerla	and), 1935
Valinoti, Joseph Robert Fordham	Brooklyn, N. Y.	Jaxheimer, David Paul Muhlenberg	Freeport, N. Y.
Weissman, Bertram College of the City of Nev	New York City v York	Jurka, Charles Edward Hamilton	Chappaqua, N. Y.
	New York City	Kafka, Betty A.B., Brooklyn, 1943	Brooklyn, N. Y.
A.M., New York Universi Wishengrad, Elaine Roslyn	ity, 1939	Kelley, Edward Joseph, Jr. Fordham	Norwalk, Conn.
Brooklyn Illinois		Kovarsky, Leonard Ohio	Passaic, N. J.
Wuthenow, Albert Eugene	son Heights, N. Y.	New York University Lane, John O'Gorman, Jr.	Forest Hills, N. Y.
Fordham	50th 210-811to, = 11	Columbia	
Zachinsky, Leo A.B., New York Universit	New York City	Levine, Wilfred New York University	New York City
Zingeser, Maurice Roy A.B., New York Universit	New York City	Luboja, Edward Stephen Fordham	New York City
,		Lucca, John James A.B., New York Univer	
FIRST YEAR—CLASS OF D	ECEMBER, 1946	McGann, Donald Michael	0
Armao, Thomas Anthony	Brooklyn, N. Y.		Staten Island, N. Y.
Manhattan	2.00.1,11, 11, 11	A.B., St. Peter's (N. J.) Murray, John Joseph	
	NT XZ1- Cit	muraj, jonn joseph	2,0 2011 010)

		· /	Staten Island, N. Y.
Armao, Thomas Anthony	Brooklyn, N. Y.	A.B., St. Peter's (N. J.)	
Manhattan		Murray, John Joseph	New York City
Atherley, Leonard Frederick	New York City	Fordham	
B.S., Long Island, 1942		Nicoletti, Leonard John	Weehawken, N. J.
Breheny, John Martin	New York City	A.B., Columbia, 1943	
Fordham		Oberman, Philip	New York City
D'Andrea, Anthony Louis	New York City	New York University	Tien Tolk City
B.S., Manhattan, 1939	•	O'Malley, Benedict Bernard	New York City
Derevlany, Michael John	Whitestone, N. Y.	A.B., Fordham, 1943	1 New 101k City
¹ Senior in Columbia			Brooklyn, N. Y.
D'Errico, Louis John	Flushing, N. Y.	Portale, Joseph Sebastian	Blooklyn, N. I.
¹ Senior in Columbia		Villanova	71 1 · NT N
Ferber, Irwin	New York City	Rackson, Chester Bert	Elmhurst, N. Y.
New York University		Queens	
Field, Jesse Waldron	New York City	Colgate	
A.B., Gettysburg, 1936	21011 2021 0117		Belle Harbor, N. Y.
Fitz-Gibbon, Francis John	Holyoke, Mass.	Colgate	
Providence	2200, 020, 22000	Remnick, Herbert Stanley	Paterson, N. J.
Fletcher, Roland Anderson	Mt Vernon N. Y	New York University	
Amherst	1.11, 10111011, 111 21	Rifkin, Irving	Yonkers, N. Y.
Yale		A.B., New York Univers	sity, 194 3
Galgano, Frank Joseph	New York City	Russell, Raymond Homer	Ilion, N. Y.
B.S., Manhattan, 1944	IVEW TOTA City	Union	
Gallagher, Joseph John	Brooklyn, N. Y.	Rypkema, John Alfred	Lodi, N. J.
¹ Senior in Columbia	Diookiyii, 14. 1.	A.B., Calvin, 1937	
Golub, Leo Joseph	New York City	Salem, James Joseph	Brooklyn, N. Y.
A.B., Columbia, 1943	INCW TOTA City	Fordham	
Halperin, Arnold	New York City	Santeramo, Eugene Frank	Jamaica, N. Y.
New York University	ivew 101k City	Queens	Juniureu, zir zi
	Decolules N. V	Scheiner, Herman Isaac	New York City
Hayward, Donald Edwin, Ja	Brooklyn, N. Y.	New York University	140 TOTA CITY
New York University		•	

 $^{^{\}rm 1}$ Undergraduate students in Columbia University exercising professional option in the School of Dental and Oral Surgery.

Shapiro, Sidney Hofstra	New York City	Gerzog, Bertram Emanual A.B., Columbia, 1939	Brooklyn, N. Y
New York University Slagle, Charles Joseph New York University	Port Chester, N. Y.	D.D.S., Columbia, 1942 Harris, Harold Robert D.D.S., New York Univers	Yonkers, N. Y sity, 1936
Stuart, Robert Sterling Bowdoin	Portland, Maine	Lefkowitz, Norman A.B., New York University	New York City
Telsey, Daubert Lo.	ng Island City, N. Y.	D.D.S., Columbia, 1939	
New York University		Mossberg, David	New York City
Thomson, Joseph John Cla		D.D.S., Pennsylvania, 193	
St. Peter's (N. J.)	North Bergen, N. J.	Newman, Herbert Paul Wes D.D.S., Maryland, 1934	t New York, N. J
Walsh, Robert Francis Fordham	Jamaica, N. Y.	Salutsky, David Marshall D.D.S., Maryland, 1942	Syracuse, N. Y
POSTGRADUATE	CTHINDNITS	Sheldon, Joseph Alfred D.D.S., Louisville, 1933	Closter, N. J
CANDIDATES FOR THE	CERTIFICATE OF	2.2.01, 202.01.110, 1999	
PROFICIE	NCY	SUMMARY	
Orthodos	ntics	Graduates—December 23, 19	94350
Berry, Morris Matthew D.D.S., Temple, 1931	Atlantic City, N. J.	Fourth Year—September, 194 Third Year—June, 1945	451
Diaz Zayas-Bazan, Juan D.D.S., Havana, 1943	Camaguey, Cuba	Second Year—March, 1946 First Year—December, 1946.	48
Erdreich, Ulysses B.S., Columbia, 1937	Brooklyn, N. Y.	Candidates for the certificate	
D.D.S., Columbia, 1941	:	Total	255

CONDENSED ACADEMIC CALENDAR

The complete Academic Calendar for the year 1944-45 may be obtained from the Secretary of the University.

1944

July 3 Monday, to July 16, inclusive. Summer vacation.

August I Tuesday. Last day for filing applications for D.D.S. degree to be conferred in September.

August 28 Monday, to September 3, Sunday, inclusive. Vacation.

September 21 Thursday, to September 30, Saturday, inclusive. Final examination period for all dental students.

¹September 30 Saturday. Conferring of M.D. and D.D.S. degrees.

October 2 Monday, to October 4, Wednesday. Registration for all dental students.

October 2 Monday, and October 3, Tuesday. Registration for applicants for the cer-

tificate of proficiency.

October 4 Wednesday. Classes hegin for applicants for the certificate of proficiency.

October 5 Thursday. New academic year begins for all dental students.

November 30 Thursday. Thanksgiving Day. Holiday.

December 25 Monday, to December 31, Sunday, inclusive. Christmas holidays.

1945

January 1 Monday. Second Trimester begins for sophomores, juniors, and seniors.

February 12 Monday, to February 14, Wednesday, inclusive. Registration for all dental students.

February 12 Monday. Alumni Day. Not a holiday.

March 19 Monday. Third Trimester begins for sophomores, juniors, and seniors.

March 30 Friday. Good Friday. Holiday.

April 2 Monday, and April 3, Tuesday. Registration for applicants for the certificate of proficiency.

or proficiency.

April 16 Monday. Last day for filing applications for D.D.S. degree to be conferred in June.

June 7 Thursday, to June 16, Saturday, inclusive. Final examination period.

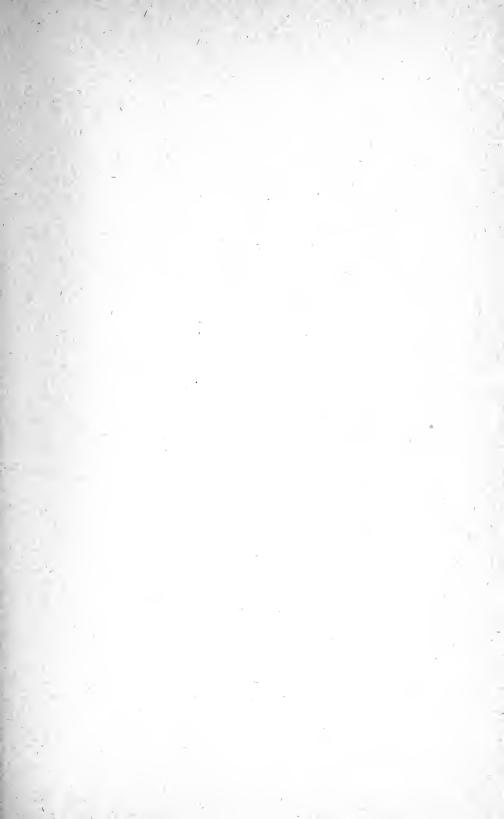
June 14 Thursday. Conferring of M.D. and D.D.S. degrees.

June 18 Monday, to June 30, Saturday, inclusive. Summer vacation.

July 2 Monday, to July 4, Wednesday, inclusive. Registration for dental students.

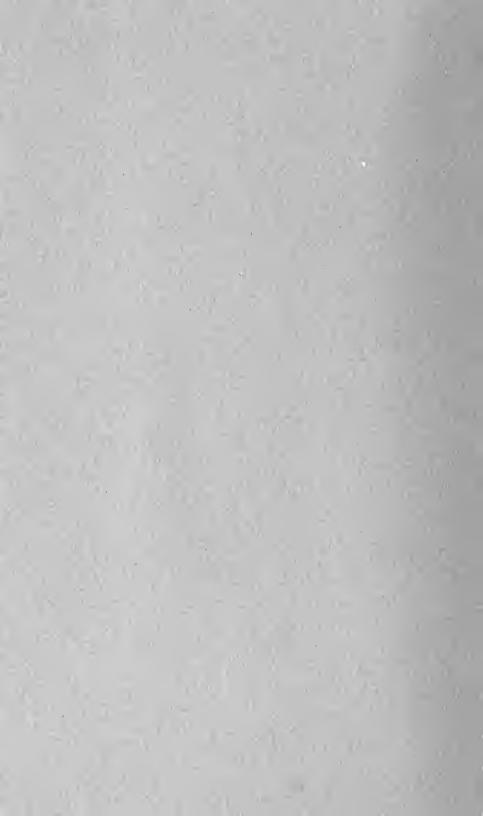
July 5 Thursday. New academic year begins for dental students.

¹ Dates for conferring of degrees are tentative.





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Columbia University BULLETIN OF INFORMATION

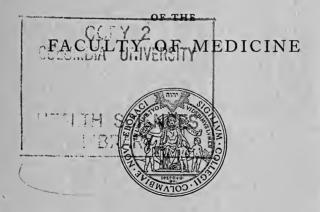
Forty-fifth Series, No. 31

June 30, 1945

with.

ANNOUNCEMENT OF THE

SCHOOL OF DENTAL AND ORAL SURGERY



1945-1946

COLUMBIA-PRESBYTERIAN MEDICAL CENTER
630 WEST 168TH STREET
NEW YORK 32, N. Y.

Columbia University Bulletin of Information

Forty-fifth Series, No. 31

June 30, 1945

Issued at Columbia University, Morningside Heights, New York 27, N. Y., weekly from December for forty-one consecutive issues. Re-entered as second-class matter November 4, 1944, at the Post Office at New York, N. Y., under the Act of August 24, 1912. Acceptance for mailing at a special rate of postage provided for in Section 1103, Act of October 3, 1917, authorized.

These include the Report of the President to the Trustees, and the Announcements of the several Colleges and Schools and of certain Divisions, relating to the work of the next year. These are made as accurate as possible, but the right is reserved to make changes in detail as circumstances require. The current number of any of these Announcements will be sent upon application to the Secretary of the University.

C. U. P. 10,000—1945.

COMMUNICATIONS

All communications regarding the School of Dental and Oral Surgery, application for admission, and appointments for personal interviews should be addressed to the School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y.; telephone Wadsworth 3-2500.

PUBLISHED FOR THE UNIVERSITY BY COLUMBIA UNIVERSITY PRESS

SUPPLEMENT TO THE ANNOUNCEMENT

of the
SCHOOL OF DENTAL AND OFAL SURGERY

of the Faculty of Medicine

of
COLUMBIA UNIVERSITY

1945-46

Dentistry 421 - General Restorative Dentistry Technic

SUPPLEMENT TO THE ANNOUNCEMENT of the SCHOOL OF DENTAL AND ORAL SURGERY of the Faculty of Medicine of COLUMBIA UNIVERSITY 1945-46

Dentistry 421 - General Restorative Dentistry Technic Drs. Carl Oman, Gilbert P. Smith and staffs. Full time. Daily 9:00 a.m. - 4:30 p.m. Monday through Friday, June 17th to August 16th, inclusive. Fee \$600.00

This course is a required technic course in operative, crown and bridge, and prosthetic dentistry. (See Page /g Combined Courses in Dentistry and Medicine). It will provide an opportunity for practitioners of medicine who have been accepted as students for the regular undergraduate dental course, to obtain the technical experience which will enable them to enter the junior class. Instruments, instrument case rental and engine rental are required.

BION R. EAST, D.D.S.
Associate Dean

March 10, 1948

Columbia University in the City of New York

ANNOUNCEMENT OF THE

SCHOOL OF DENTAL AND ORAL SURGERY

OF THE

FACULTY OF MEDICINE



1945-1946

COLUMBIA-PRESBYTERIAN MEDICAL CENTER
630 WEST 168TH STREET
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FACULTY OF MEDICINE

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¹ On leave 1945-1946.

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- WILFRED MONROE COPENHAVER Associate Professor of Anatomy A.B., Western Maryland, 1921; Ph.D., Yale, 1925.
- Joseph Anthony Cuttita Assistant Professor of Dentistry A.B., Fordham, 1932; M.S., 1936; D.D.S., Columbia, 1939. [Diagnosis]

- Alphonse Raymond Dochez John E. Borne Professor of Medical and A.B., Johns Hopkins, 1903; M.D., 1907; Sc.D., New York University, Surgical Research 1925; Yale, 1926; Western Reserve, 1931.
- BION R. EAST. Associate Dean (Dentistry), Executive Officer of the Department of Dental and Oral Surgery, Professor of Dentistry [Public Health Practice] D.D.S., Michigan, 1908.
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- FREDERICK BONNER FLINN Associate Professor of Industrial Hygiene A.B., Johns Hopkins, 1900; Ph.D., Columbia, 1923.
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¹ On leave 1945-1946.

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George Frank Lindig
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FRANCIS STEPHEN McCaffrey
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MILTON ROBERT MILLER
EDWARD GERALD MURPHY
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HARRY NEIVERT
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Walter Stanton Root Associate Professor of Physiology B.S., Wesleyan, 1924; Ph.D., Pennsylvania, 1930.

¹ Theodor Rosebury
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JOSEPH SCHROFF
ALBIN ROBERT SEIDEL
Aura Edward Severinghaus Associate Dean (College of Physicians and Surgeons) and Associate Professor of Anatomy B.S., Columbia, 1916; A.M., 1920; Ph.D., 1929.
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GEORGE K. SMELSER
GILBERT PERCIVAL SMITH
HARRY PRATT SMITH Delafield Professor of Pathology A.B., California, 1916; M.S., 1918; M.D., 1921.
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EDITH E. SPROUL
B.S., Dartmouth, 1926; M.D., Rush, 1930; M.P.H., Johns Hopkins, 1932.
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DAVID B. AST, D.D.S., M.P.H Lecturer in Public Health Practice
¹ Herbert Delbert Ayers, Jr., A.B., D.D.S
¹ On leave 1945–1946.

WILLIAM WELLS BAADE, D.D.S
CARLISLE C. BASTIAN, D.D.S Special Lecturer in Dentistry [Prosthetics]
CLARISSA H. BEATTY, A.M
WALTER REGINALD BEAVEN, D.D.S Instructor in Pharmacology
OSCAR EDWARD BEDER, B.S., D.D.S
NORMAN WINGATE BOYD, B.S., D.D.S
¹ RICHARD GREGORY CARSON, B.S., D.D.S Assistant in Dentistry [Operative]
Ada R. Clark, Ph.D
¹ GERARD LOUIS COURTADE, A.B., D.D.S Assistant in Dentistry [Prosthetics]
ROBERT CYRIL DEVINE, B.S., D.D.S
INGRITH JOHNSON DEYRUP, Ph.D Instructor in Physiology
¹ Frederick Schulken Doscher, B.S., D.D.S Instructor in Dentistry
[Oral Surgery]
SAMUEL BENJAMIN DRELLICH, D.D.S
CHARLOTTE FEHLMAN, A.M Special Lecturer in Dentistry
[Courses for Dental Hygienists]
¹ Mario A. Franzone, D.D.S
JACOB S. FRIEDLANDER, D.D.S
¹ HERBERT PHILIP FRITZ, B.S., D.D.S
¹ BENJAMIN WILLIAM GLICK, A.M., M.D
Isidore Harry Goldberger, M.D Special Lecturer in Dentistry [Courses for Dental Hygienists]
IRVING R. HARDY, D.M.D Special Lecturer in Dentistry [Prosthetics]
HARRY W. HAYS, Ph.D Assistant in Pharmacology
ROBERT EDWARD HERLANDS, A.B., D.D.S
¹ Maurice John Hickey, D.M.D., M.D Instructor in Surgery
GEORGE HINDELS, D.D.S
On leave 1945-1946.

¹ Robert Henry Hoffman, D.D.S
KATHERINE FLORENCE HOLLIS, R.D.H Instructor in Dentistry [Courses for Dental Hygienists]
Lewis Edward Jackson, D.D.S
JAMES JAY, D.D.S
HENRY R. JUNEMANN, A.B., D.D.S
Adele Karp, B.S
Morris Kavelle, B.S., D.D.S
WILLIAM C. KELLER, D.M.D
WILLIAM KLEINBERG, Ph.D Instructor in Pharmacology
Daniel L. Kline, B.S
MAURICE E. KRAHL, Ph.D Instructor in Pharmacology
N. Henry Larson, D.D.S
Bennett M. Lathrop, B.S., D.D.S Assistant in Dentistry [Pedodontics]
WILLIAM PHILIP LAVORI, B.S., D.D.S Assistant in Dentistry [Prosthetics]
WILLIAM H. LEAK, D.D.S
¹ Alan Leslie, A.B., M.D
JULIUS K. LITTMAN, M.D
L. Vosburgh Lyons, M.D
HARRIET McCormick, Ph.D Special Lecturer in Dentistry [Courses for Dental Hygienists]
EMANUEL A. MANGINELLI, M.D Instructor in Neurology
¹ Robert Irving Mason, A.B., D.D.S Assistant in Dentistry [Operative]
ARTHUR H. MERRITT, M.S., D.D.S., Sc.D Special Lecturer in Dentistry [Periodontology]
HENRY MILCH, A.B., M.D Instructor in Anatomy
WILLIAM MILLER, B.S., D.D.S
WILLIAM JOHN MILLER, A.B., D.D.S Assistant in Dentistry
¹ On leave 1945-1946. [Operative]

WALTER HERMAN MOSMANN, D.D.S Special Lecturer in Dentistry [Orthodontics]
FERDINAND G. NEUROHR, D.D.S Special Lecturer in Dentistry [Prosthetics]
¹ ROBERT W. NORTHROP, D.D.S
¹ Armand M. Oppenheimer, A.B., B.S., D.D.S Special Lecturer in Dentistry [Orthodontics]
¹ ELIZABETH E. PAINTER, Ph.D Instructor in Physiology
MORTIMER A. ROTHENBERG, A.B., M.S Assistant in Biochemistry
FRANCIS J. W. ROUGHTON, B.A., Ph.D., F.R.S Research Associate in Physiology
,
BENJAMIN SALZER, M.D
Louis Schorr, D.D.S
HERBERT F. SILVERS, B.S., D.D.S
WILLIAM HERMAN SILVERSTEIN, D.D.S Assistant in Dentistry [Operative]
¹ CLIFFORD L. SPINGARN, A.B., M.D
GEORGE STEIN, M.D., D.M.D
[Diagnosis] FERDINAND A. STEWART, JR., A.B., D.D.S
[Oral Surgery]
¹ Barbara B. Stimson, A.B., M.D., Med.Sc.D Associate in Surgery
Frances Agnes Stoll, R.D.H., B.S Instructor in Dentistry
[Courses for Dental Hygienists]
HARRY STRUSSER, D.D.S Special Lecturer in Dentistry
[Courses for Dental Hygienists]
Benjamin Tenenbaum, B.S., D.D.S Research Assistant
[Periodontology]
BERNERD O. A. THOMAS, M.S., D.D.S
NATALIA TUPIKOVA, Ph.B Assistant in Pharmacology
WILLIAM W. WALCOTT, A.B., Ph.D Instructor in Physiology
GENEVA HASTINGS WALLS, R.D.H
GLENN H. WHITSON, D.D.S
[Orthodontics]
JACOB M. WISAN, D.D.S., M.S.P.H Lecturer in Public Health Practice
¹ WILLIAM CARL WOHLFARTH, JR., Ph.B., D.D.S Assistant in Dentistry [Prosthetics]
Frederick F. Yonkman, M.D Lecturer in Pharmacology
¹ On leave 1945–1946.

CLINICAL ASSISTANTS

JUNIUS B. AGNELLI, B.S., D.D.S. JOHN J. DOLCE, B.S., D.D.S. HENRY ELLISON, B.S., D.D.S., M.S.P.H. STANLEY A. NIEF, A.B., D.D.S. JACOB FEINMAN, B.S., D.D.S. LEONARD HIRSCHFELD, A.B., D.D.S. HAROLD C. KILPATRICK, D.D.S. BERTRAM KLATSKIN, A.B., D.D.S. LEONARD E. KOENIG, A.B., D.D.S.

BENJAMIN MAHLER, D.D.S. ALVIN S. NATHAN, B.S., A.M., D.D.S. WILBUR PREZZANO, B.S., D.D.S. Louis Saporito, D.D.S. PAUL C. SEXAUER, B.S., D.D.S. WALTER W. STEVENS, D.D.S. WILLIAM A. THEMANN, D.D.S.

PRESBYTERIAN HOSPITAL DENTAL SERVICE

ALBIN R. SEIDEL, D.M.D., Director

Attending Dental Surgeons

Adolph Berger, D.D.S. ISADOR HIRSCHFELD, D.D.S. HOUGHTON HOLLIDAY, A.B., D.D.S. HAROLD J. LEONARD, A.B., D.D.S. FRANCIS S. McCAFFREY, B.S., D.D.S. ALBIN R. SEIDEL, D.M.D.

Associate Attending Dental Surgeons

LESTER R. CAHN, D.D.S. JOSEPH SCHROFF, B.S., M.D., D.D.S. LEWIS R. STOWE, D.D.S. Daniel E. Ziskin, D.D.S.

Assisting Attending Dental Surgeons

WILLIAM W. BAADE, D.D.S. Frank E. Beube, L.D.S., D.D.S. ¹ROBERT W. NORTHROP, D.D.S.

PRESBYTERIAN HOSPITAL ORAL SURGERY SERVICE

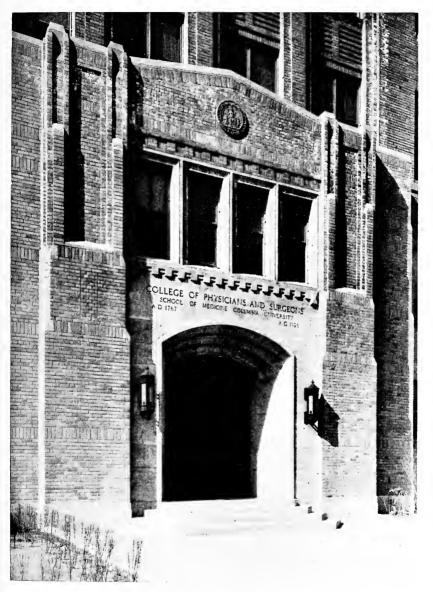
HENRY S. DUNNING, B.S., M.D., D.D.S. Attending Oral Surgeon Douglas B. Parker, M.D., D.D.S. Assistant Attending Oral Surgeon

UNIVERSITY OFFICERS OF ADMINISTRATION

Frank D. Fackenthal, LL.D., Litt.D Provost of the University
HENRY McA. Schley, B.S
PHILIP M. HAYDEN, A.M Secretary of the University
Frank H. Bowles, A.M Director of University Admissions
Bernard P. Ireland, A.M Assistant Director of University Admissions
CARL M. WHITE, Ph.D Director of Libraries
Edward J. Grant, A.B Registrar of the University
W. EMERSON GENTZLER, A.M Bursar of the University
Frederick Miller, C.E Director of Buildings and Grounds
· ·

¹ On leave 1945-1946.

REV. STEPHEN FIELDING BAYNE, JR., S.T.M Chaplain of the University
RALPH J. FUREY, A.M
DENJAMIN A. HUBBARD, Ph.B Director of King's Crown Activities
WILLIAM H. MCCASTLINE, M.D
HOMAS A. MCGOEY, M.S Director of University Residence Halls
MARGARET BARNARD PICKEL, Ph.D Adviser to Women Graduate Students and
Head of Johnson Hall
KOBERT F. MOORE, A.B
SEYMOUR ROBB, A.B. in L.S



ENTRANCE TO THE SCHOOL OF MEDICINE AND THE SCHOOL OF DENTAL AND ORAL SURGERY



THE SCHOOL OF DENTAL AND ORAL SURGERY

Columbia University was founded in 1754 as King's College by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The Revolutionary War interrupted its active work, but in 1784 it was reopened as Columbia College. In 1912 the title was

changed to Columbia University in the City of New York.

In September, 1916, students in dentistry were admitted to courses in Columbia University at the School of Medicine. On March 5, 1917, the Trustees of the University established a School of Dentistry as of September 27, 1916, and from that date the School became an integral part of the University. On March 1, 1920, the dental building adjacent to the School of Medicine and Vanderbilt Clinic was finished and assigned to the use of this school.

On July 1, 1923, the College of Dental and Oral Surgery of New York (organized in 1905) was merged with the School of Dentistry, and the combined institutions named the School of Dental and Oral Surgery of Columbia University. By this merger Columbia acquired two large buildings, at 302-306 East 35th Street and 309-315 East 34th Street, in which the School was housed up to the time of moving

into the Medical Center.

In September, 1928, the School was moved to the Columbia University-Presbyterian Hospital Medical Center. The dental department of the School occupies the three upper floors of the Vanderbilt Clinic wing, a net floor area of 40,000 square feet. The fundamental science subjects, which are given to both dental and medical students, are taught in the adjoining College of Physicians and Surgeons, the corridors of the two schools being continuous. In adjacent wings, the halls of which are also continuous with those of the School, the wards and out-patient departments of the Presbyterian and associated hospitals are located, thus giving the closest possible contact and association with all branches of health service. The Dental School clinic includes as one of its functions the dental care of the patients of the Medical Center hospitals.

In order to strengthen the instruction of dental and medical students, the Faculties of the two schools have been merged as of July 1, 1945. This Faculty is responsible for the educational programs in Medicine, Dental and Oral Surgery, Public Health, Nursing, Graduate and Postgraduate Medical and Dental Education. A Committee on Dental Education, established by University statute, of which the majority are members of the School of Dental and Oral Surgery, will initiate recommendations to the Faculty on the qualifications and admission requirements for dental students, the curriculum of instruction, the candidates for the degree of Doctor of Dental

Surgery, and other educational matters dealing with dentistry.

The course in dentistry covers four academic years leading to the degree of Doctor of Dental Surgery. The greater part of the first two years of the curriculum is taken in the fundamental science departments of instruction in the University which are integral parts of the College of Physicians and Surgeons and the School of Dental and Oral Surgery. During the national emergency the School will be on an accelerated program which, without changing the content of the course, will permit the student to graduate in three calendar years.

STUDENTS

After having received an admission permit the student may proceed to register, in the stated registration period (see Academic Calendar), for such prescribed or elective courses of instruction as are appropriate for his purposes. Acceptance of a student for admission is based on grounds of character and health, as well as on the fulfillment of academic requirements.

Each person whose registration has been completed will be considered a student of the University during the session for which he is registered unless his connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other

institution, without the consent of the appropriate Dean or Director.

Students prevented by conscientious scruples from complying with academic requirements which may be fulfilled only upon days set apart by their church for religious observance should make application to the appropriate authority for equitable relief.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University, which is free to cancel his registration at any time on any grounds which it deems advisable. The disciplinary authority of the University is vested in the President in such cases as he deems proper, and, subject to the reserved power of the President, in the Dean of each Faculty and the Director of the work of each Administrative Board.

GRADUATION

Commencement occurs in June, at which time all recipients of degrees awarded during the academic year are expected to attend the exercises unless excused. Diplomas are issued in June or at various times during the year. During the national emergency, it is planned to issue diplomas at periods of approximately nine months, as each class completes the requirements.

No degree will be granted to a student who has not registered for and attended at the University courses of instruction equivalent to at least one academic year of

full-time work.

An application for a degree or certificate, other than the several doctoral degrees, terminates at the next regular time for the issuance of diplomas subsequent to the date of filing; but under conditions prescribed by the respective faculties it may be subject to renewal for a fee of \$1.00 each time that a candidate chooses to come up for consideration, within a period not to exceed three years. Thereafter with the filing of a second application the regular fee is again payable—\$20 in the case of a degree and \$10 in the case of a certificate.

Dates for the filing of applications are given in the Academic Calendar at the end of this Announcement.

WITHDRAWAL

An honorable discharge will always be granted to any student in good academic standing, and not subject to discipline, who may desire to withdraw from the University; but no student under the age of twenty-one years will be entitled to a discharge without the assent of his parent or guardian furnished in writing to the proper Dean. Students withdrawing must notify the Registrar immediately.

The Dean of the school may, for reasons of weight, grant a leave of absence to a

student in good standing.

When entry into the armed service takes place after the opening of any session, students should consult the Registrar for information as to special adjustment of fees and credits.

ANNOUNCEMENTS

The Announcements of each college or school, of the Summer Session, of University Extension, and of the several divisions may be obtained without charge from the Secretary of the University.

Letters requesting more detailed information than is contained in the Announcement, and all correspondence regarding admission, should be addressed to the Dean, School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y.

LIBRARY

A combined medical-dental library with spacious reading room containing approximately 125,000 volumes and about 10,000 pamphlets occupies a part of three lower stories of the main administration building of the Medical Center. A trained library staff provides specialized services to meet the needs of students, interns, teachers, and research workers of the combined Medical School, Dental School, and Presbyterian Hospital Unit. The library has seating capacity for 250 readers.

The periodical room on the upper floor is especially equipped to foster and encourage research work. Here are received over 1,200 current journals, and near by are shelved files of reviewing, indexing, and abstracting services and a selection of the more important journals. All other journals are in the stacks. A special alcove

contains the latest available literature relating to war medicine.

University Libraries. The Libraries on Morningside Heights are open to all students of dentistry, and books may be borrowed for home use. They include collections on anatomy, biochemistry, public health, nursing, and other subjects related to dentistry and supplement the special collections available in the College of Physicians and Surgeons and in the New York Academy of Medicine, Fifth Avenue at 103d Street. The library of the College of Pharmacy, 115 West 68th Street, is also open to students in the School of Dental and Oral Surgery.

UNIVERSITY PRIVILEGES

As the School of Dental and Oral Surgery is an integral part of Columbia University, its students enjoy all the privileges and facilities open to members of other departments of the University. They may reside in the University Residence Halls at Morningside Heights and are eligible to membership in the various social and other organizations of the student body.

University Gymnasium. The Gymnasium is situated on Morningside Heights and is open daily during the academic year, except on Sundays and legal holidays, from 9 a.m. to 7 p.m. on Tuesdays, Fridays, and Saturdays, and from 9 a.m. to 10 p.m. on Mondays, Wednesdays, and Thursdays. On all holidays it is open from 3 to 6 p.m. One or more of the instructors are on the floor at all times when the Gymnasium is open. Students of the School of Dental and Oral Surgery may enjoy its privileges and have the use of the Gymnasium and baths and a private locker. The student is entitled also to a physical examination by the University Medical Officer, who, on the basis of such an examination, will give advice as to the kind and amount of exercise best adapted to the needs of each man. The Gymnasium is large, thoroughly equipped, and under the immediate supervision of the Professor of Physical Education, who is assisted by a corps of able instructors.

Employment. The Appointments Office, located in Alumni House, is the central placement department of the University through which students and graduates are referred to suitable positions. For the convenience of the dental students, a division of the office is operated at the Medical Center in coöperation with the office of the

Dean of the School.

It is the function of the Appointments Office to endeavor to secure for competent men and women students who need to work their way through the University, the opportunity to earn enough for their partial support. It is the experience of the office, however, that it is practically impossible for dental students to undertake outside part-time work during the academic year without seriously jeopardizing their school work and their health. The office consequently does not encourage students of the School of Dental and Oral Surgery to seek employment during the academic year. In general, the office advises students who are unable to pay the complete cost of attending the School to withdraw for a year in order to earn the money necessary to enable them to give undivided attention to their academic work.

MEDICAL ATTENDANCE

A medical examination is given to each student annually. Provision has also been made at the Medical Center for examination and advice in cases of minor illnesses and for treatment of emergencies. All entering students are required to have a dental examination in the School and to have all necessary dental work completed prior to graduation. The University Medical Officer, Dr. W. H. McCastline, has supervision of all matters affecting the health of the student body.

KING'S CROWN HOTEL

The King's Crown Hotel, 420 West 116th Street, in close proximity to the University, is owned by the University. It provides accommodations at reasonable rates, available for relatives and guests of members of the University community.

INTERNATIONAL HOUSE

International House, 500 Riverside Drive, is a privately endowed residence for students from foreign lands and a limited number of American students. It accommodates 175 women and 325 men and contains a restaurant and social rooms.

Inquiries should be addressed to the Committee on Admissions, International House, 500 Riverside Drive, New York 27, N. Y.

EARL HALL

Earl Hall was given to Columbia University by the late William Earl Dodge for the religious and social activities of the students. On the main and upper floors, reached by the campus entrance, are the offices of the Chaplain of the University and his staff and the offices of the three Religious Counselors. These floors also contain an auditorium and other facilities for extensive religious and social activities. The lower floor, entered from Broadway, is occupied by the offices of the University Medical Officer.

UNIVERSITY BOOKSTORE

For the convenience of the medical and dental students, the University Bookstore maintains a branch on B floor of the College of Physicians and Surgeons. In addition to medical and dental textbooks, the store carries a stock of new and used microscopes, laboratory equipment, and student supplies. The textbooks are sold at discounts from the usual prices whenever such discounts are permitted by the publishers. The store is open from 8:30 a.m. to 6 p.m. daily; during the first days of the opening session, until 10 p.m.

A GUIDE TO COLUMBIA UNIVERSITY

A description of the grounds and buildings of the University will be found in *A Guide to Columbia University*, which is published by Columbia University Press, 709 Journalism, at \$.75, clothbound. The book also contains an account of the University's history and traditions.

REQUIREMENTS FOR ADMISSION, PROMOTION AND GRADUATION

ADMISSION TO FIRST YEAR OF THE SCHOOL OF DENTAL AND ORAL SURGERY

Eligibility. No definite information regarding eligibility can be given until the completed application blank has been filed by the applicant at the office of the Dean.

Application. It is desirable that candidates make application during the academic year preceding that in which they seek admission. It is not necessary to complete the academic requirements before making application. However, all requirements must be completed before matriculation. Application blanks will be furnished by the Dean's office of the School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y. Application blanks must be completely filled in and accompanied by an official transcript of the college record.

The minimum requirement for admission to the first year class is the satisfactory completion of three full years at an acceptable college of arts and sciences, which

must include the satisfactory completion of the courses required for the dental student qualifying certificate as mentioned below.

The New York State Board of Regents includes the following subjects in the minimum requirements for the qualifying certificate:

										Sen	nester Hours
English composition and literature				<i>'</i> .							6
Physics											
Biology											
Chemistry (including an approved	cour	rse in	or	ganio	c ch	emi	stry).			12

A point or semester hour is the equivalent of one hour of lecture or recitation or of two hours of laboratory work per week, per semester. Suitable laboratory work must be included in each of the courses in science.

Inasmuch as an understanding of the biological sciences is based upon the knowledge of the underlying sciences of chemistry, physics, and biology, students are urged, so far as time permits, to take additional courses in quantitative, qualitative, physical, and organic chemistry, physics, comparative anatomy and other advanced courses in biology, as well as courses in mathematics, German and French, sociology, history, and other subjects of general cultural and scientific value. Courses in fine and industrial arts are also of value.

Owing to the limited number of students who can be accommodated, completion of the requirements for entrance does not guarantee admission. The entire predental record of each student is carefully examined by the Committee on Admissions in order that those who are adjudged most capable of meeting the exacting demands of the course and of the profession of dentistry may be selected. Preference will be given in the selection of students to those who present to the Committee on Admissions evidence of high achievement in selected college courses of special predental value and who are most likely to succeed in dentistry, rather than to those who present the largest number of course credits or those who have limited their preparation to the prescribed subjects.

COMBINED COURSES

Combined Courses with Columbia College. Upon receiving ninety-four points credit, sixty-four of which must be for work in Columbia College, including all the work prescribed for the degree of Bachelor of Arts in Columbia College, a student may take studies in the first year of the School of Dental and Oral Surgery, provided he can satisfy the stated requirements and is accepted for admission therein, and will receive the degree of Bachelor of Arts from Columbia College upon the satisfactory completion of the year's work. No course may be counted toward a professional degree and at the same time be included among those which go to make up the ninety-four points referred to above.

Students from Barnard College may exercise the professional option after the completion of 90 points of academic work, including all grouped work and a major of 28 points unless this number is reduced in individual cases by special permission of the Committee on Instruction of Barnard College.

Combined Courses in Dentistry and Medicine. It is usually possible for a graduate

of a registered medical school with the degree of Doctor of Medicine to meet the requirements of the School and receive the degree of Doctor of Dental Surgery by the satisfactory completion of a special two-year course.

SUMMER SESSION

In 1945 there will be no separate Summer Session, second, third, and fourth year classes continuing throughout the summer with a vacation period in the month of June.

COURSES FOR DENTAL HYGIENISTS

The courses in dental hygiene offered by the School of Dental and Oral Surgery are intended for women who desire to become licensed dental hygienists. The requirements for admission are the completion of at least four years of high school work, including certain specific subjects, the attainment of at least eighteen years of age, and the qualifying certificate obtained from the Department of Education of the State of New York. Preference will be shown for applicants who have satisfactorily completed two or more years of college work. For full information address the Dean, School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y.

COURSES FOR GRADUATES

The School of Dental and Oral Surgery, in coöperation with University Extension, arranges courses in the various divisions of dentistry to meet the needs of groups of practitioners. In 1945–1946 short refresher courses will be offered in various subjects in accordance with demand. Fees for such courses are based on costs. Requests should be sent to the office of the Dean.

Postgraduate students are accepted for advanced individual clinical study and for research. Requirements include graduation from an approved dental school, membership in the candidate's local and national dental societies, and recommendations from ethical practitioners. In most divisions of the School the applicant must register for a minimum period of one semester, either full or half-time. There is no degree or certificate offered for these specially arranged courses. Fees are based on the regular undergraduate fees. Applications should be sent to the office of the Dean, School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y.

CERTIFICATE OF PROFICIENCY

The School of Dental and Oral Surgery is authorized to grant a certificate of proficiency in dentistry or in a special branch of dentistry selected by the candidate and approved by the School of Dental and Oral Surgery to students who have complied with the requirements stated below. The requirements for admission include graduation from the School of Dental and Oral Surgery or from another acceptable school of dentistry in the United States or in a foreign country.

The course of study for the certificate of proficiency includes not less than fortytight trimester credits of special work in the clinical branches of dentistry approved y the Dean of the School of Dental and Oral Surgery. The fee for the year's work leading to the certificate of proficiency is the same as for undergraduate work in the School.

Application blanks may be obtained from the Dean's office. When application for registration is made, the candidate is passed upon by the Dean and the teachers concerned and, if accepted, registers in the regular manner.

COURSES IN ORTHODONTICS FOR GRADUATES

An organized fourteen-month course is offered to qualified graduates in dentistry who wish to prepare for specialization in orthodontics. Admission requirements include graduation from an acceptable school of dentistry. The certificate of proficiency is awarded to those who satisfactorily complete the course.

For special information see the Announcement of Advanced and Graduate Courses in Dentistry, which may be obtained from the Dean, School of Dental and

Oral Surgery.

GRADUATE COURSES

Graduation from accredited dental schools under the present curriculum of four academic years preceded by three acceptable predental college years is considered by the Graduate Faculties of Columbia University as meeting the general requirement for admission. There are additional admission requirements in certain departments. A student who is accepted by the Graduate Faculties as a candidate for the degree of Doctor of Philosophy and who holds the Doctor of Dental Surgery degree from Columbia University may, with the consent of the Dean, offer the work done for the professional degree in lieu of thirty points toward the fulfillment of the resident requirement for the degree. For further information see the Graduate Announcement.

PUBLIC HEALTH FOR DENTISTS

A one-year course leading to a Master of Science degree in public health for dentists is offered. The course is open to graduate dentists. For information regarding course content, registration, and fees apply to the School of Public Health, 600 West 168th Street, New York 32, N.Y.

REGISTRATION

Before attending University courses, every student must present himself at the office of the Registrar and file a registration blank giving such information as may be required. The periods set aside for registration in each session are stated in the Academic Calendar at the end of this Announcement. Registration at a later date is permitted only on the written permission of the Dean, satisfactory cause for the delay having been shown.

The University Statutes provide that tuition fees, the University fee, and laboratory deposits are payable semiannually in advance. No reduction is made for late registration. Registration will not be complete until such fees are paid. Checks should be drawn to the order of Columbia University and presented in person or mailed to the office of the Bursar. Payment of fees after the last day of registration (see the Academic Calendar) imposes automatically the statutory charge of \$3.00

for this privilege. Under the regulations, the privileges of the University are not available to any student until he has completed his registration.

The fees to be paid by students are subject to change at any time at the discretion of the Trustees. Tuition fees for men in the Navy Collegiate Training Program are paid by the government.

The following fees are prescribed for dental students:

The following rees are prescribed for dental students.	
(a) University Fee For all students for each session, or for any part thereof	\$10.00
(b) Tuition Fee For the course in dentistry for one half an academic year (or equivalent) in the case of a student enrolled for the full course. For students not enrolled for the full course, fees are to be assessed by the Registrar as provided by the University Statutes.	250.00
(c) Fee for Application 1. For a degree	20.00 10.00
 (d) Privileges 1. Late registration or late application for a degree or certificate or for deficiency or special examinations 2. Deficiency or special examinations 3. Renewal of application for any degree or certificate 	3.00 3.00 1.00
(e) Student Activities (payable annually) 1. For all students, Columbia Dental Review 2. For sophomores, juniors, and seniors, junior membership in the American Dental Association	2.00 3.00 .50
(f) Case Rental For sophomores, juniors, and seniors, rental for one instrument case, for each semester	2.50
 (g) Rebates 1. The University fee and the fee for application for any degree or certificate shall not be subject to rebate. 2. If a student withdraws from the School a partial return of tuition fee may be authorized by the Registrar. When a rebate is allowed for the discontinuance of courses or withdrawal from the University, such rebate will be reckoned from the day upon which the Registrar receives notice from the student. 	
(h) Deposit	25.00

in the kit of chemicals supplied to each student, or additional quantities of chemicals beyond this allowance; and service in washing apparatus or work by a mechanic. Refund of any balance will be made upon the completion of

the prescribed course or withdrawal from the School.

Acceptance Fee. Within two weeks after an applicant has been notified that his application has been accepted, he must notify the Dean that he intends to matriculate and accompany his communication with a check or money order for \$50, payable to Columbia University. This acceptance fee will belong to the University and, if he does not register at the School for the specific session, it will not be returned. If he registers at the School at the next enrollment of entering students, the amount of the acceptance fee will be deducted from his tuition fees for that session.

Instruments and Supplies. Each student is required to supply himself with instruments as specified in the official instrument list. The purchase from the University of instruments in original package outfits has been made compulsory, and unauthorized or incomplete equipment will not be accepted by the instructors. All technic material and regular supplies must be purchased from the University upon an order from the instructor. The students will not be allowed to purchase more than is required to complete a case. The quantity and quality are selected with a view to the best possible results and conservation of the student's best interests.

Microscopes. All students entering the School of Dental and Oral Surgery are required to provide themselves with microscopes of a satisfactory type. A microscope of standard make fitted with the following attachments will fill the require-

ments:

Triple nosepiece Abbe condenser 10x and 6x oculars 16 mm. and 4 mm. objectives Oil immersion lens

The cost of a suitable reconditioned microscope varies from \$60 to \$100, depending on the make and model. The standard price of new microscopes is \$155. Each student should also provide himself with a substage lamp. During the national emergency it is possible to rent microscopes, from the University Book Store at a rental fee of \$20 for an academic year.

Lockers. Each student will be assigned a locker on entering and will be required to use a combination lock as prescribed by the School.

ESTIMATED EXPENSES

Following is an itemized estimate of the average expenses of a full-time student for an academic year in the School of Dental and Oral Surgery exclusive of travel, clothing, amusements, charity, organizations, and sundries. These items are, of course, variable, but should not be overlooked in estimating the total expense. The tuition, room, board, books, and laundry figures are based upon the rates which prevailed during 1944–1945 and can be accepted as applicable in general for the year 1945–1946 unless national economic changes require their alteration.

							Average	Minimum
Tuition and fees .							\$555.00	\$530.00
Room							235.00	175.00
Board							350.00	325.00
Books							80.00	40.00
Instruments (see be	low)						200.00	200.00
Laundry			:				50.00	36.00
							\$1,470.00	\$1,306.00

The approximate cost of instruments for the four-year course is \$650 plus the cost of the microscope. It may be necessary to rent some instruments from the University. Instruments are to be paid for at the opening of the academic year. The cost of books will vary, depending upon the choice made from the selection offered.

The government lends books and instruments to men in the Navy Collegiate Training

Program.

REQUIREMENTS FOR PROMOTION

r. A student may be admitted to the second, third, or fourth year of the dental curriculum only upon the recommendation of the class officers of instruction under which he has studied during the preceding year.

2. The School of Dental and Oral Surgery reserves the right to refuse readmission or promotion to any student who is believed for any reason to be unsuited to

the conditions of study in this school.

Students are classified for readmission or promotion under the following headings:

- I. Recommended for advancement
 - a) Unconditionally
 - b) Conditionally
- II. Recommended for readmission to the same class
- III. Recommended neither for advancement nor for readmission to the same class
 - a) Because of failure
 - b) Those who fall under paragraph 2 of rules for advancement of students

GRADING OF STUDENTS

The following grade equivalents are used: A, excellent; B, good; C, fair; F, failure.

REQUIREMENTS FOR GRADUATION

In addition to complying with the requirements for admission and to completing the required work of the curriculum, each candidate for the degree of Doctor of Dental Surgery must present satisfactory evidence as required by law of good moral character and of having attained the age of twenty-one years. If the candidate shall have been admitted to advanced standing, he must have spent not less than four academic years or their equivalent in approved medical or dental colleges in the study of the subjects making up the curriculum of the School of Dental and Oral Surgery.

NATIONAL BOARD OF DENTAL EXAMINERS

The National Board of Dental Examiners provides an examination in the theory of the science of dentistry. The clinical examination, in every instance, is reserved for the state examining board. A certificate of qualification will be issued to each candidate approved by the National Board when the candidate has been in actual practice for three years after his graduation and has submitted new and satisfactory evidence of his moral and ethical standards of professional conduct. To date the following states have dental laws permitting their licensing authorities to recognize the certifi-

cate of qualification of the National Board of Dental Examiners: Alabama, Connecticut, Delaware, Georgia, Indiana, Iowa, Illinois, Kansas, Maine, Minnesota,

Nebraska, Oklahoma, Pennsylvania, South Dakota, and Virginia.

Only such undergraduates as may be certified by their respective deans shall be eligible to the National Board examinations. The examinations are held in two separate parts. Part I, which is open to undergraduate candidates who have met the predental requirements and have successfully completed the first two years of work in an approved dental school, consists of a written examination in the following sciences: anatomy, general and dental; bacteriology; physiology; general pathology; histology, general and dental, including embryology; physiological chemistry and metallurgy. Part II, which is open to undergraduate candidates who have passed Part I and have successfully completed the senior year or are eligible for the final examinations of the senior year in an approved dental school, consists of a written examination in each of the following subjects: operative dentistry; materia medica and therapeutics; prosthetic dentistry, including partial and full denture, fixed and removable bridgework, and crown construction; oral and dental surgery; orthodontia, radiology, jurisprudence and ethics; oral pathology and anesthesia. Usually the examinations are given twice a year, in January and May. Application should be made to GORDON L. TEALL, D.D.S., Secretary of the National Board of Dental Examiners, Hiawatha, Kansas.

LICENSE TO PRACTICE DENTISTRY IN NEW YORK STATE

Those desiring to take the New York State Board examinations are advised to address the Chief of Professional Examinations Bureau, New York State Department of Education, Albany, New York. All applications for admission to the examinations should be completed at least fifteen days before the examinations begin.

The examinations are conducted by the Department, and answer papers are read and marked by the Board, who know the candidate only by number. The subjects of the licensing examinations are anatomy, chemistry and metallurgy, operative dentistry and radiography, therapeutics and materia medica, physiology and hygiene, oral surgery, pathology and bacteriology, prosthetic dentistry, and histology. The operative and prosthetic subjects are divided into theory and practice. The minimum standing required in each subject is 75 percent.

The State Department of Education will admit conditionally to the examinations in anatomy, physiology, chemistry and metallurgy, and histology, applicants over nineteen years of age who are of good moral character, who are citizens of the United States or have declared the intention of becoming citizens in accordance with the law, and who are certified as having successfully completed the first two years of the required course in a registered dental school.

LICENSE TO PRACTICE DENTISTRY IN NEW JERSEY

Those desiring to take the examinations of the State Board of Registration and Examination in Dentistry of New Jersey must obtain from the Bureau of Credentials, Department of Public Instruction, Trenton, New Jersey, preferably before entering a dental college but not later than two months after matriculation, a dental student

qualifying certificate. This is in addition to the New York State dental student qualifying certificate. Applicants for the New Jersey licensing examinations must file a preliminary application by March 15 for the June examination or by September 1 for the December examinations.

FELLOWSHIPS, SCHOLARSHIPS, AND PRIZES

Recipients of University financial aid in excess of tuition, whether in the form of fellowships, scholarships, or other grants, will be asked to reside in the University Residence Halls unless exempted by the appropriate Dean with the approval of the President upon the presentation of adequate reasons for living elsewhere.

Two Ellis Fellowships are awarded annually to qualified graduates of any of the colleges of recognized rank in the state of Vermont. The holders of these fellowships may pursue resident graduate studies under any one of the graduate schools maintained by the University, and are eligible for reappointment for not more than two additional years, with the proviso that a holder of the fellowship who is a student in medicine may be eligible for reappointment for not to exceed three additional years. The annual stipend is \$1,600. Applications should be submitted on or before March 1 on blanks to be filed with the Secretary of the University.

Three scholarships of tuition value in the School of Dental and Oral Surgery are awarded annually. These scholarships are open to students from outside the metropolitan area whose records of scholarship and special fitness for dentistry make them

particularly desirable to the School.

A prize known as the Ella Maria Ewell Medal is awarded annually to that student of the School of Dental and Oral Surgery who, in the judgment of the Faculty, is most proficient in some subject of dentistry. The branch of dentistry for which the award is made is determined by the executors of the will of Grover C. Beckwith-Ewell.

The Van Woert Scholarship Fund was established by the alumni of the School of Dental and Oral Surgery in 1940. The award, the income from \$1,000, is given annually to a senior student in the dental school who stands high in scholastic attainments, in personal character, in potentiality of being a credit to Columbia University and the dental profession, and who is in need of financial aid.

The Alumni Association makes an annual award of the Rowe-Wiberg Medal to the senior student who has shown the greatest proficiency in prosthetic dentistry.

An annual award is made by the Sigma Epsilon Delta Fraternity to the graduating student who, in the opinion of the Faculty, shows the greatest promise.

An annual certificate award for proficiency in dentistry for children has been established by the *Dental Columbian* of the Class of 1939.

OMICRON KAPPA UPSILON

Epsilon Epsilon chapter of Omicron Kappa Upsilon, national honorary fraternity, was chartered in the School of Dental and Oral Surgery in 1934. The purpose of this organization is to recognize and honor scholarship and, especially, character of outstanding quality in members of the senior class. The leading 12 percent of the graduating class is eligible for election each year.

THE WILLIAM JARVIE SOCIETY

The William Jarvie Society for Dental Research is a non-secret, dental honor society, membership in which is based upon scholarship and interest in dental research, and to which sophomores, juniors, and seniors are eligible. The society was organized in the School of Dental and Oral Surgery in 1920 and named after Dr. William Jarvie because of his wide interest in the promotion of dental research. The society aims to promote the spirit of research among the students.

THE DENTAL ABSTRACT SOCIETY

The Dental Abstract Society is open to all students and staff members who are interested in current dental literature. Monthly meetings are held, at which abstracts of selected articles from current periodicals are read and discussed.

THE ASSOCIATION OF THE ALUMNI OF THE SCHOOL OF DENTAL AND ORAL SURGERY

President, Louis I. Abelson.
Vice-President, Morris Fierstein.
Secretary, William Giblin.
Treasurer, Sidney Riesner.
Editor, John J. Mayers.

Any graduate, former student, officer of instruction, or administrative officer of the School of Dental and Oral Surgery is eligible to membership in the Association of the Alumni of the School of Dental and Oral Surgery of Columbia University.

CURRICULUM

Subject	Trimester Credits	Lecture Hours	Lab. or Clinic Hours	Total Hours
FRESHMAN YEAR:				
Anatomy				
Embryology	2	20		20
Gross	15	60	262	322
Microscopic	8	38	126	164
Neuro	4	60		60
Oral	6 8	18	95	113 140
Biochemistry	2	35 7	105 61	68
Physiology	10	56	148	204
Injunity (·	
SOPHOMORE YEAR:	55			1,091
Bacteriology	7	40	90	130
Crown and bridge	4	10	85	95
Dental materials	2		40	40 2 0
Oral hygiene	2	20	220	240
Operative dentistry	9 11	20 70	130	200
Periodontology	I		30	30
Pharmacology	6	50	30	8o
Prosthetic dentistry	10	20	210	230
Psychopathology	1	10		10
Radiology	r	10		10
Surgery, oral	2	20		20
JUNIOR YEAR:	56			1,105
Anatomy, applied	ı	10		10
Technic	6	10	105	115
Clinic	1		30	30
Porcelain	2		60	60
Applied occlusal dynamics	I	• • •	30	30 60
Diagnosis, dental	4	30	30	320
Operative dentistry	11 5	20 20	300 75	95
Pathology, oral	4	20	60	80
Periodontology	ī			. 30
Prosthetic dentistry	7	20	150	170
Public health	2	20		20
Radiology	1,		30	30
Surgery, oral	2	10	30	40
Theory and practice	2 I	20		2 0
Therapeutics		10		
SENIOR YEAR:	51			1,110
Crown and bridge	6	10	150	160
Diagnosis, dental	I		30	30
Operative dentistry	13	20	330	350
Pedodontics	4	10	90	100
Periodontology	3	20	25 20	45 60
Practice of medicine	5 6	40 10	150	160
Surgical prosthesis	ī		30	30
Surgery, oral	4	40	60	100
Theory and practice	ī	10		10
Senior electives	44			1,045
Oral pathology				1,045
Oral surgery		15 30		30
Orthodontics			30	30
Public health				

COURSES OF INSTRUCTION

For purposes of instruction the work of each academic year is scheduled in three sessions which are designated as First, Second, and Third Trimesters. The unit of credit signifies approximately three academic hours of work a week for one session. For classroom work this means one hour a week in class and an average of two hours of home work. For laboratory or clinical work it represents three academic hours of work a week in the School.

For a detailed statement of the content of each course, the student is referred to the departmental statements which follow. Courses numbered from 100 to 199 are open to candidates for the degree of Doctor of Dental Surgery in the first and second academic years. Courses numbered from 200 upward are open to candidates for the degree of Doctor of Dental Surgery in the third and fourth academic years.

The outline on page 27 shows the work required of a candidate for the degree of Doctor of Dental Surgery. The University reserves the right to make such changes

in the program of studies at any time as experience may prove desirable.

Courses enclosed in brackets are not given in 1945-1946.

ANATOMY

Anatomy 101—Oral anatomy. Freshman year. 6 credits.

Lectures, recitations, and laboratory on the growth and development of the jaws and face and the individual teeth, the structural formation of the teeth, the anatomy of the surrounding and related tissues of the oral cavity, and the morphology of the teeth.

Anatomy 115—Oral histology and embryology. Freshman year. 2 credits.

Lectures and laboratory on the microscopic structures of the oral tissues and the application of this knowledge to technical dentistry.

Anatomy 150-Microscopic anatomy. Freshman year. 8 credits.

Lectures, conferences, and laboratory.

This course is the same as Anatomy 101F in the Medical School.

Anatomy 151—Gross anatomy. Freshman year. 15 credits.

Lectures, conferences, and laboratory.

Anatomy 152—Embryology. Freshman year. 2 credits.

Lectures and demonstrations dealing with the dynamics of vertebrate development, with particular reference to mammals and man.

Anatomy 153—Neuroanatomy. Freshman year. 4 credits.

Lectures and demonstrations on the gross anatomy, structure, and functions of the central nervous system. This course is equivalent to *Anatomy 106S* in the Medical School.

Anatomy 252—Applied anatomy of the head and neck. Junior year. 1 credit.

Lectures and demonstrations. A review course with special application to the problems of the major fields of dentistry.

BACTERIOLOGY

Bacteriology 151—General medical bacteriology and immunology. Sophomore year. 4 credits.

Lectures, conferences, and laboratory.

Bacteriology 152—Principles of bacteriology, epidemiology, infection, immunity, serum diagnosis, and specific therapy. Sophomore year. 3 credits.

This course is identical with Bacteriology 105F in the Medical School except that lectures on the mouth bacteria are substituted for several of those of the medical series.

BIOCHEMISTRY

Biochemistry 150—Introductory biochemistry. Freshman year. 8 credits.

Lectures and laboratory. A study of the chemistry of life processes with special reference to the animal organism.

CROWN AND BRIDGE

Crown and Bridge 105—Crown and bridge lectures and technic. Sophomore year. 4 credits.

Lectures on the technical procedures in crown and bridgework with practical application, and the construction of bridges and crowns on technic models.

Crown and Bridge 205—Crown and bridge lectures and technic. Junior year. 6 credits.

Lectures on the technical procedures in crown and bridgework with practical application, and the construction of bridges and crowns on models and extracted teeth.

Crown and Bridge 206—Crown and bridge clinic. Junior year. 1 credit.

Clinical construction of elementary crown and bridgework.

Crown and Bridge 207-Porcelain technic. Junior year. 2 credits.

Uses of porcelain; construction of porcelain jacket crown on technic model; staining and glazing of artificial teeth.

Crown and Bridge 209-Round wire technic. Junior year. 1 credit.

Lectures and laboratory in the construction of round wire clasps and lugs for partial dentures. Not given in 1944-1945.

Crown and Bridge 210—Crown and bridge lectures. Senior year. 1 credit. Lectures and conferences on various types of bridgework.

Crown and Bridge 211—Crown and bridge clinic. Senior year. 7 credits.

Clinical construction of crown and bridgework.

Crown and Bridge 212-Applied occlusal dynamics. Junior year. 1 credit.

Lectures, demonstrations, and technique stressing the relationship of occlusal deformities, both natural and acquired, to oral physiology. Correlation of all factors involved in the corrective and restorative procedures.

First given in 1944-1945.

DENTAL MATERIALS

Dental Materials 126—Physical properties of dental materials. Sophomore year. 2 credits.

Lectures and laboratory on the physical and chemical properties of the metals and other materials used in dentistry, with clinical applications.

DIAGNOSIS

Diagnosis 212—Dental diagnosis lecture and clinic. Junior year. 4 credits.

Lectures, conferences, and clinical practice in oral examination and charting, history-taking, methods of pulp testing, dental x-ray diagnosis, oro-dental symptomatology, and occlusal dysharmonies.

Diagnosis 213—Dental diagnosis clinic. Senior year. 1 credit.

Continuation of clinic of Diagnosis 212.

MEDICINE

Medicine 278—General survey of medicine. Senior year. 5 credits.

Lectures and conferences covering phases of general medicine pertinent to dentistry and clinics for small groups in which the patients are studied for correlation of systemic and dental conditions.

OPERATIVE DENTISTRY

Operative Dentistry. 131—Elements of operative dentistry. Sophomore year. 9 credits.

Lectures on the fundamentals of operative dentistry. Technical procedures in the filling of teeth, the study of dental materials, and introduction to clinical practice.

Operative Dentistry 233—Operative clinical practice. Junior year. 11 credits.

Lectures on the application of operative fundamentals to clinical practice. The technique of porcelain inlay construction. Clinical practice and demonstrations.

Operative Dentistry 234—Advanced operative clinical practice. Senior year. 13 credits.

A continuation in lectures and clinic of *Operative Dentistry 233* with the consideration of special problems in operative practice, including root canal therapy.

ORAL HYGIENE

Oral Hygiene 122-Oral hygiene lectures. Sophomore year. 2 credits.

Lectures and conferences on scientific findings relating to the causes and prevention of the common diseases and defects of the teeth.

ORTHODONTICS

Orthodontics 241—Principles of orthodontics. Junior year. 5 credits.

Lectures, demonstrations, and laboratory. Orthodontic fundamentals with special emphasis on prevention in orthodontics by the early recognition and correction of the predisposing factors. Laboratory instruction in the fundamental technic of making plain labial and lingual arches, space retainers, and habit breakers.

Orthodontics 243-Orthodontic elective. Senior year. No credit.

Clinical orthodontics. Offered to seniors who are eligible for electives.

PATHOLOGY

Pathology 150—General and special pathology. Sophomore year. 11 credits.

A study of important pathological conditions, demonstrated by museum specimens and a very complete series of histological preparations.

Pathology 246—Oral pathology. Junior year. 4 credits.

Lectures, conferences, and laboratory work on the pathology of the diseases of the jaws, mouth, and teeth.

Pathology 247—Oral pathology seminar. Senior year. No credit. Elective.

Conferences on the clinical application of oral pathology.

PEDODONTICS

Pedodontics 202—Pedodontics, lectures and clinic. Senior year. 4 credits.

Lectures and conferences on operative dental procedures for children, the handling of the child, and the application of present knowledge of preventive dentistry. Clinical work includes history-taking, prophylaxis, and restorative procedures adapted to deciduous and early permanent dentitions.

PERIODONTOLOGY

Periodontology 151-Periodontia clinic. Sophomore year. 1 credit.

Lectures, laboratory, and clinical work on personal dental hygiene, dental prophylactic technic, and simple periodontia.

Periodontology 251-Periodontia clinic. Junior year. 1 credit.

Lectures and clinical work in the diagnosis and treatment of periodontoclasia.

Periodontology 252—Periodontology lectures. Senior year. 2 credits.

Lectures and conferences on the theory and practice of periodontology.

Periodontology 253-Periodontia clinic. Senior year. 1 credit.

Advanced work in the clinical diagnosis and treatment of periodontoclasia.

PHARMACOLOGY

Pharmacology 150—General pharmacology. Sophomore year. 6 trimester credits.

Lectures, conferences, and laboratory. In this course the pharmacological action of drugs on man and lower animals is studied. Short courses in pharmacy and prescription writing are included.

PHYSIOLOGY

Physiology 150-Mammalian physiology. Freshman year. 10 credits.

Lectures, conferences, and laboratory.

PROSTHETIC DENTISTRY

Prosthetics 157—Prosthetic lectures and technic. Sophomore year. 10 credits.

Lectures and technical procedures in full and partial denture construction.

Prosthetics 260—Prosthetic lectures. Junior year. 2 credits.

Examination, classification, application of anatomical considerations, and clinical procedure in full and partial denture construction.

Prosthetics 261—Prosthetic clinic. Junior year. 5 credits.

Clinical construction of full and partial dentures.

Prosthetics 263—Prosthetic clinic. Senior year. 6 credits.

Clinical construction of full and partial dentures.

Prosthetics 264—Prosthetic lectures. Senior year. 1 credit.

A series of lectures by outstanding local practitioners in the prosthetic field on clinical considerations in partial denture diagnosis, design, and construction.

Prosthetics 265—Surgical prosthesis. Senior year. 1 credit.

Lecture and technical procedures in maxillofacial and surgical prosthesis.

PSYCHIATRY

Psychiatry 150—Psychopathology. Sophomore year. 1 credit.

Lectures in psychobiology; the growth, instinctive and emotional development of the individual from birth to adulthood; personality traits and patterns; personality factors in physical illness; types of abnormal behavior based on brain pathology, on functional processes or habit disturbances, with clinical demonstrations. Principles of mental hygiene and environmental adjustments.

PUBLIC HEALTH

Public Health 222—Principles of public health. Junior year. 2 credits.

Survey course in the theory and practice of preventive medicine, dentistry, and public health. Fundamental principles of administration, statistics, epidemiology, industrial hygiene, and sanitation. The principles and problems of dental public health practice are emphasized.

Public Health 223—Epidemiology and biostatistics. Elective, senior year. Six hours a week for 8 weeks.

A lecture and laboratory course in introductory vital statistics. Offered to seniors who are eligible for electives.

RADIOLOGY

Radiology 165—Oral radiology conference. Sophomore year. 1 credit.

Lectures, readings, and discussions on topics relative to oral radiology.

Radiology 267—Oral radiology practice. Junior year. 1 credit.

Practice in exposing, processing, and mounting dental radiographs.

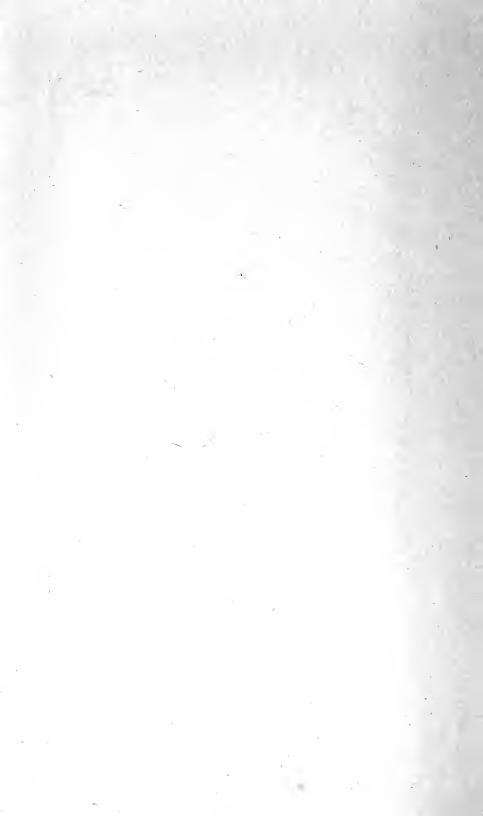
SURGERY

Surgery 168—Principles of surgery. Sophomore year. 2 credits.

Lectures and conferences on principles of surgery and a consideration of general surgical diseases



THE MEDICAL CENTER, INCLUDING THE SCHOOL OF DENTAL AND ORAL SURGERY WING AT THE RIGHT



Surgery 270—Oral surgery. Junior year. 2 credits.

Lectures, conferences, demonstrations, and clinical practice on local and general anesthesia and the removal of teeth.

Surgery 272—Oral surgery. Senior year. 4 credits.

Lectures and conferences on oral and maxillofacial surgery and general anesthesia.

Clinical practice in the removal of teeth and in local and general anesthesia. Clinical demonstrations in the diagnosis and operative procedures in the treatment of pathological conditions and injuries about the face, jaws, and oral cavity.

Surgery 274—Oral surgery demonstrations. Senior year. No credit. Elective.

Presentation and demonstrations of oral pathological and maxillofacial lesions.

THEORY AND PRACTICE OF DENTISTRY

Theory and Practice 281—Dental ethics and practice management. Junior year. 1 credit.

Lecture and conference course on dental ethics, economics, office conduct and routine.

Theory and Practice 282—Dental jurisprudence. Junior year. 1 credit.

Lecture and conference course in dental jurisprudence.

Theory and Practice 283—Dental history. Senior year. 1 credit.

Lecture and conference course in dental history.

Theory and Practice 284—Senior thesis.

Each senior is required to present a thesis representing original reading, scientific research, or both, to be completed under the immediate supervision of Professor Holliday and with the help of an adviser in the field selected, and with the final approval of the Research Committee.

Theory and Practice 285—Comprehensive case. Junior and senior years.

Each student is assigned a case for which he performs all the dental services: taking of X-ray negatives, treatment planning, surgery, and reparative and restorative procedures. The services are carried out in the various clinical divisions, where grades are entered for the student toward the fulfillment of his clinical requirements. The oral examination accompanying the inspection of the completed case aims to correlate the teaching of the entire course.

Theory and Practice 286—Therapeutics. Junior year. 1 credit.

Lectures and conferences on drugs and other therapeutic agents used in dentistry. Formerly *Pharmacology* 250

TEXTBOOKS

The following list includes most of the books recommended. For the convenience of those who wish to determine their expenses in advance, there are appended the lowest prices at which the books, in cloth binding, can be purchased in New York City. These prices are liable to fluctuation. As a rule, the latest editions only of the textbooks should be purchased. Students are warned against buying any books until specifically advised by the departments concerned.

Anatomy. Gross anatomy. Required: Gray, Anatomy, \$12.00; Rogers, Dissecting Manual, \$.75. Recommended but not required: Cunningham, Manual of Practical Anatomy, \$12.75 a set; Cunningham, Textbook of Anatomy, \$12.00; Piersol, Human Anatomy, \$10.00.

Applied anatomy. Required: Shapiro, Applied Anatomy of the Head and Neck, \$5.50.

Embryology. Required: Arey, Developmental Anatomy, \$6.75.

Microscopic anatomy. Required: Bailey, Textbook of Histology (11th ed.), \$6.00.

Neuroanatomy. Required: Strong and Elwyn, Human Neuroanatomy, \$6.00.

Oral anatomy. Required: Diamond, Dental Anatomy (2d revised ed.), \$4.50.

Oral histology and embryology. Required: Bodecker, Fundamentals of Dental Histology and Embryology (Columbia ed.), \$4.00; Laboratory Manual and Drawing Notebook, Oral Histology and Embryology, \$.75.

- BACTERIOLOGY. Required: Jordan and Burrows, Textbook of Bacteriology, \$6.00. Recommended but not required: Gordon, et al, Dental Science and Dental Art, \$9.50; Topley and Wilson, Principles of Bacteriology and Immunity (2d ed.), \$12.00.
- Biochemistry. Required: Harrow, Textbook of Biochemistry (3d ed.), \$4.00; Karshan, Laboratory Manual, \$.75. Recommended but not required: Bodansky, Introduction to Physiological Chemistry, \$4.00; Hawk and Bergeim, Practical Physiological Chemistry, \$8.00.
- CROWN AND BRIDGE. Required: Tylman, Crown and Bridge Prosthesis, \$10.00; Hoyt et al, Crown and Bridge Syllabus, \$.75. Recommended but not required: Le Gro, Ceramics in Dentistry, \$7.50; Felcher, Porcelain in Dentistry, \$9.00.
- DENTAL MATERIALS. Required: Physical Properties of Dental Materials, Bureau of Standards Circular C 433, United States Government Printing Office, \$.75. Recommended but not required: Skinner, The Science of Dental Materials (2d ed.), \$4.75.
- Diagnosis. Required: Differential Diagnosis of Mouth Diseases, \$4.00; Handbook of Pulp Symptomatology and Diagnosis, \$1.15. Mimeographed material furnished by the Department.
- Medicine. Required: Yater, Fundamentals of Internal Medicine, \$10.00. Suggested but not required: Cecil, Textbook of Medicine, \$9.50; Comroe, Collins, and Crane, Internal Medicine in Dental Practice, \$5.50; Meakins, Practice of Medicine, \$10.00.

- OPERATIVE DENTISTRY. Required: Black, Operative Dentistry, Vols. II and III, \$5.50 each. Mimeographed notes are also furnished by the Department.
- ORAL HYGIENE. Required: Gordon, Dental Science and Art, \$9.50.
- ORTHODONTICS. Recommended for collateral reading: Salzman, Principles of Orthodontics, \$10.00; Strang, Textbook of Orthodontia (2d ed.), \$10.00; Dewey and Anderson, Practical Orthodontics (6th ed.), \$10.00; McCoy, Applied Orthodontia (5th ed.), \$4.50.
- Pathology. Required: W. A. D. Anderson, Synopsis of Pathology, \$6.00.
- ORAL PATHOLOGY. Required: Cahn, Pathology of the Oral Cavity, \$5.50.
- Pedodontics. Required: McBride, Juvenile Dentistry, \$6.50.
- Periodontology. Suggested but not required: Goldman, Periodontia; Hirschfeld, The Toothbrush, \$7.50; Merritt, Periodontal Disease, \$3.75.
- Pharmacology. Required: Goodman and Gillman, *Pharmacological Basis of Thera*peutics, \$12.50. Recommended but not required: *Accepted Dental Remedies*, \$1.00.
- Physiology. Required: Bard, MacLeod, Physiology in Modern Medicine, \$10.00; Laboratory Manual, \$.75.
- PROSTHETIC DENTISTRY. Required: Anthony, American Textbook of Prosthetic Dentistry, \$11.00; Swenson, Complete Dentures, \$10.00; Young et al, Syllabus, \$1.60. Recommended but not required: Nichols, Prosthetic Dentistry, \$12.50.
- PSYCHIATRY. Recommended but not required: Henderson and Gillespie, Textbook on Psychiatry, \$7.00; Hinsie, Visual Outline of Psychiatry, \$2.00; Noyes, Modern Clinical Psychiatry, \$5.00; Solomon and Yakolev, Manual of Military Neuropsychiatry, \$6.00; Strecker, Fundamentals of Psychiatry, \$3.00; Strecker and Ebaugh, Practical Clinical Psychiatry, \$5.00; Weiss and English, Psychosomatic Medicine, \$8.00.
- Radiology. Required: Ennis, Dental Roentgenology (3d ed.), \$6.50.
- Surgery. Required: Berger, Principles and Technique of Oral Surgery, \$7.00; Fischer and Reithmuller, Local Anesthesia, \$4.50; Homans, Textbook of Surgery, \$8.00. Recommended but not required: Berger, Principles and Technique of the Removal of Teeth, \$7.50; Flagg, Art of Anesthesia, \$5.00; Parker, Synopsis of Traumatic Injuries of the Face and Jaws, \$4.50; Stout, Human Cancer, \$10.00.
- Dictionary. Required: Stedman, Medical Dictionary, \$7.50. Recommended but not required: W. B. Dunning and S. E. Davenport, A Dictionary of Dental Science and Art, \$6.50. Choice of: Dorland, Illustrated Medical Dictionary, \$7.50; Gould, Medical Dictionary, \$7.50.

REGISTER OF STUDENTS

GRADUATES—CLASS OF SEPTEMBER 28, 1944

Amontree, Edward Joshua	New York City	Lavori, William Philip	Staten Island, N. Y
A.B., Columbia, 1941		B.S., College of the City	of New York, 1941
Bershadsky, Sol Charles	Bayonne, N. J.	Leonard, William Francis	Mt. Vernon, N. Y.
A.B., New York Universit		Oberlin	
Bibbo, James Vincent, Jr.	New York City	Levinson, Stanley Bernard	New York City
A.B., Syracuse, 1941		A.B., New York Univer	sity, 1940
Caulfield, Bernard Morris	Bayside, N.Y.	McKeon, Raymond Xavier	 New York City
B.S., St. John's (N. Y.),	1941	B.S., Manhattan, 1939	
Citron, Sherman Ross	Brooklyn, N.Y.	Manners, Philip	New York City
A.B., Columbia, 1939		A.B., New York Univer	sity, 1941 -
A.M., Columbia, 1940		Monahan, Leonard John	New York City
Cole, Robert Merton	Tarrytown, N. Y.	B.S., Manhattan, 1940	
A.B., Columbia, 1942	•	Morris, Robert Irving	Bangor, Maine
Conte, Joseph Frank	Tuckahoe, N. Y.	A.B., Maine, 1941	_
B.S., Manhattan, 1941		Muccia, Daniel Arthur	New York City
Cornell, Peter Joseph	New York City	A.B., Columbia, 1941	
B.S., St. John's (N. Y.),	1941	Natelson, Estelle Marion	Brooklyn, N. Y.
	Schenectady, N. Y.	New York University	
A.B., Vanderbilt, 1941		Nesse, Gerald Jack	New York City
Dene, Ralph William	Brooklyn, N. Y.	A.B., New York Univer	
A.B., Brooklyn, 1941	2200127, - 11 - 1	M.S., New York Univer	
	New Haven, Conn.	Orfanos, George Peter Lo.	
B.S., Fordham, 1939	24011 2241011, 0011111	Columbia	
Dorsey, John Henry	Portland, Maine	Quast, William Wentwort	h. Ir.
B.S., Bowdoin, 1941	1 01114114, 1.141110		est Hempstead, N. Y.
Fookson, George	New York City	Rawitt, Eugene	New York City
A.B., New York University		B.S., St. Peter's Col. (N	I. I.) 1038
Fusco, Fulvio Francis	New York City	A.M., New York Univer	rsity to 20
B.S., College of the City of		Rendich, Henry Joseph, Jr	
Georgiade, Nicholas George	Jamaica, N. Y.		ckville Centre, N. Y.
Fordham	Jamaica, 14. 1.	B.S., St. Peter's Col. (N	I I) 7040
Girling, George Wesley W.	Haverstram N V	Rogers, Jerome Alan	New York City
B.S., Manhattan, 1941	Haveishaw, IV. 1.	B.S., College of the City	
Gordon, Jacob	Brooklyn M V	Sall, Hymie David	Syracuse, N. Y.
	Brooklyn, N. Y.	A.B., Syracuse, 1940	Oylacuse, 14. 1.
Brooklyn	NT. N. I. Ch.	Salzman, Leonard	New York City
Gormley, Eugene Joseph	New York City	B.S., College of the City	
B.S., Manhattan, 1940		Sirna, Lawrence Edward	New York City
Greene, George William, Jr.	Brooklyn, N. Y.	B.S., St. John's (N. Y.)	TOAT
B.S., Notre Dame, 1941		Slusky, Melvin	Brooklyn, N. Y.
Herlands, Robert Edward	New York City	A.B., New York Univers	
A.B., Columbia, 1941		Smith, David Joseph	Brooklyn, N. Y.
Holliday, Paul Houghton	Tenafly, N. J.	New York University	Blooklyn, IV. 1.
B.S., Bowdoin, 1941		Smith, George Allen, Jr.	Port Chester, N. Y.
Hribar, George Martin	Elmhurst, N. Y.	A.B., Columbia, 1942	Ton Chester, IV. 1.
B.S., Mt. St. Mary's, 1940		Sweeney, James Russel	Washington, D. C.
Hyatt, John Wesley	Short Hills, N. J.	A.B., Columbia, 1931	washington, D. C.
A.B., Columbia, 1940	_	Thoma, Robert Frank	Tumberale NI V
Keneally, Francis Joseph	New York City	Pennsylvania	Lynbrook, N. Y.
A.B., Fordham, 1940	•	New York University	
Kornblueh, Frederick	New York City	Wasserman, Bernard H.	Recolution NI V
A.B., New York University	7. 1041		Brooklyn, N. Y.
Lackey, Leon Agee	Kimball, W. Va.	A.B., Brooklyn, 1941 Weiss, George Arthur	Decelolar NT NT
A.B., Berea, 1941	, , , , , , , a,	A.B., Brooklyn, 1941	Brooklyn, N. Y.
,, ->		11.D., DIOOKIYII, 1941	
COT	ODED # 1044	TO TIME 16 11:	
001	OBER 5, 1944	TO JUNE 16, 1945	

FOURTH YEAR—CLASS OF JUNE, 1945 Abelson, Jacob New York City B.S., College of the City of New York, 1941

Arnold, Herbert New York City A.B., New York University, 1942

Baer, Paul Nathan Kew Gardens, N. Y. A.B., Brooklyn, 1942 Bartelstone, Herbert Jerome New York City

B.S., College of the City of New York, 1942 ell, Archie Harry Elizabeth, N. J. Bell, Archie Harry A.B., Columbia, 1943

Beneel	01 22111112
Benfield, James Winston A.B., Syracuse, 1925	Hartsdale, N. Y.
Blatman, Daniel	Great Neck, N. Y.
Boscarelli, Ignazio Frank	New York City
B.S., Manhattan, 1942 Brown, William James	Brooklyn, N. Y.
Fordham Cain, Edward Andrew	New York City
B.S., Fordham, 1942 Cohen, Meyer	Elizabeth, N. J.
B.S., Rutgers, 1938 Colaneri, Joseph Nicholas	New York City
A.B., Columbia, 1941 Conaty, Arnold Paul A.B., Brown, 1945	Hartsdale, N. Y.
Daly, William Jerome	Brooklyn, N. Y.
A.B., Columbia, 1943 Di Salvo, Nicholas Armano	d New York City
B.S., College of the City	of New York, 1942
Durant, Robert Edward Boston College	New Bedford, Mass.
Freeman, Morris A.B., New York Univers	New York City
Friedman, Marvin	New York City
A.B., New York Univers M.S., New York Univers	
M.S., New York Univers	sity, 1942
Gattegno, Edgar	New York City
A.B., New York Univers	
Goodman, Robert A.B., New York Univers	New York City
Halbrecht, Irving Daniel	Somerville, N. J.
A.B., New York Univers	sity, 1942
Hogan, John Daniel H	lighland Falls, N. Y.
B.S., Notre Dame, 1942	
Horowitz, Mervin Bell	New York City
B.S., College of the City Jacobs, William Ralph	of New York, 1942
A.B., Brooklyn, 1942	Brooklyn, N. Y.
Kaplan, Benjamin	New York City
Cornell	INCW I OIL City
Largey, John Francis	New York City
B.S., Niagara, 1942	
Lieberman, Julius	New York City
B.S., College of the City	of New York, 1934
M.S., College of the City	of New York, 1940
Madden, Robert Francis Fordham	Lake Placid, N. Y.
Mandel Irwin Daniel	Brooklyn, N. Y.
B.S., College of the City Menasche, Salvatore	Brooklyn N V
A.B., Brooklyn, 1942	Diookijii, 14. 1.
Miringoff, Aaron Yale	New York City
B.S., College of the City	of New York, 1941
Mitchell, Joseph James	Brooklyn, N. Y.
B.S., St. John's (N. Y.)	
Mohr, Irving Ward A.B., New York Univers	New York City sity, 1942
Morelli, Nicholas Francis	Catskill, N. Y.
A.B., Union, 1942	D 11 37 77
Oliveri, Gaspar Anthony	Brooklyn, N. Y.
B.S., St. John's (N. Y.) Ostreicher, Herbert Paul	, 1942
	ckson Heights, N. Y.

Jackson Heights, N. Y.

Brooklyn, N. Y.

A.B., Columbia, 1943

A.B., New York University, 1942

Sarkady, Lester Samuel

1111 0 11112 0 0 1	
Shwalb, Richard Abraham	Brooklyn, N. Y.
A.B., Columbia, 1943 Siegel, Fred Morris	Schenectady, N. Y.
Union Steinberg, Charles	New York City
B.S., College of the City	of New York, 1941
Stella, Armand Matthew	
Mo	nmouth Beach, N. Y.
B.S., Manhattan, 1942	,
	NT 371- C:
Stern, Leo, Jr.	New York City
A.B., Columbia, 1943	
Stone, Arnold	Flushing, N. Y.
Oueens	
	Schenectady, N. Y.
Tolge, Reinhold Bruno	Schenectady, 14. 1.
Union	
Zeh, William George	Glendale, N. Y.
B.S., Long Island, 1942	
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THIRD YEAR-CLASS OF MARCH, 1946

TITING TELLIN GELLES OF E	
Archer, William Harold	New York City
A.B., Fordham, 1943	
Arden, Howard Anthony B.S., Fordham, 1943	New York City
Ballin, Bert	New York City
A.B., Oberlin, 1943	110 1 01 01,
Cali, Vincent	New York City
B.S., College of the City of	
Campbell, Paul Stine	Redlands, Calif.
Redlands	Assessed NT NZ
Castiglia, Hannibal Louis	Astoria, N. Y.
Columbia	N
Chnapko, Victor Peter	New York City
B.S., Long Island, 1942	
Darling, Maus Vedder	Stamford, Conn.
A.B., Johns Hopkins, 1936	
Della Rocca, Vincent Paul	New York City
New York University	
De Vito, Joseph John	Brooklyn, N. Y.
A.B., Columbia, 1943	
Earnest, Franklin Arthur	New York City
A.B., New York University	, 1943
Ellison, Solon Arthur	New York City
B.S., College of the City of	New York, 1942
Elvershofen, Walter	New York City
Columbia	
Fitz-Gibbon, John Hamilton	Holyoke, Mass.
Providence	
Garber, Martin Aaron	Providence, R. I.
Providence	
Gladue, Wilfred Harold	Woonsocket, R. I.
B.S., Rhode Island State, 19	
Halpert, Wesley	New York City
B.S., College of the City of	
Katz, Lester Edwin	New York City
New York University	
Kotch, Raymond Leonard	New York City
B.S., College of the City of	
Kutscher, Austin Harrison	New York City
New York University	
McElroy, Joseph Raymond	Brooklyn, N. Y.
St. John's University	,
Mandel, Louis	New York City
A.B., New York University	
Minervini, George August	Yonkers, N. Y.
A.B., Columbia, 1942	,
	on Heights, N. Y.
A.B., Fordham, 1943	0 ,

A.B., Fordham, 1943

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	New York City	Galgano, Frank Joseph	New York City
A.B., New York University, 19 Olinger, Donald Sundell Glo Pennsylvania	942 en Ridge, N. J.	B.S., Manhattan, 1944 Gallagher, Joseph John Columbia	Brooklyn, N. Y.
Pane, John Thomas	New York City	Golub, Leo Joseph	New York City
Fordham	New York City	A.B., Columbia, 1943 Grether, Erda Sved (Mrs.) Russell Sage Wisconsin	New York City
B.S., College of the City of No		Halperin, Arnold	New York City
B.S., College of the City of No	New York City w York, 1944 New York City	New York University Hayward, Donald Edwin, Jr New York University	. Brooklyn, N. Y.
A.B., Hofstra, 1939	New Tork City	Heaphy, Charles Francis	Norwalk, Conn.
	y Beach, N. Y.	Fordham Heyen, Aloys Diedrich	Lynbrook, N. Y.
	043 ringfield, Mass.	Franklin & Marshall Hoelzer, Robert Frederick	Hollis, N. Y.
	inhasset, N. Y.	Colgate Hosiosky, Ellen N.	New York City
A.B., Holy Cross, 1943 Sommer, Gordon Alexander Sommer Som	Spokane, Wash.	D.M.D., Basle (Switzerla Jaxheimer, David Paul	Freeport, N. Y.
B.S., Idaho, 1940 Columbia Medical School	. 11 27 37	Muhlenberg Jurka, Charles Edward	Chappaqua, N. Y.
A.B., Brooklyn, 1943	rooklyn, N. Y.	Hamilton Kafka, Betty	Brooklyn, N. Y.
B.S., Tufts, 1943	orchester, Mass.	A.B., Brooklyn, 1943 Kelley, Edward Joseph, Jr.	Norwalk, Conn.
Fordham	rooklyn, N. Y.	Fordham Kovarsky, Leonard	Passaic, N. J.
College of the City of New Yo	New York City	Ohio New York University Lane, John O'Gorman, Jr. Columbia	New York City
A.M., New York University,	1939	Levin, Alfred W. New York University	New York City
Wishengrad, Elaine Roslyn Brooklyn Illinois	New York City	Levine, Wilfred New York University	New York City
Wuthenow, Albert Eugene	TT 1.11 NT 37	Luboja, Edward Stephen Fordham	New York City
Fordham	Heights, N. Y.	Lucca, John James	Brooklyn, N. Y.
A.B., New York University, 1	New York City 942	A.B., New York Universit McGann, Donald Michael	New York City
Zingeser, Maurice Roy A.B., New York University, 19	New York City 942	A.B., St. Peter's (N. J.), Murray, John Joseph	New York City
0700VP VP I		Fordham Nicoletti, Leonard John A.B., Columbia, 1943	Weehawken, N. J.
SECOND YEAR—CLASS OF DECE		Oberman, Philip	New York City
Manhattan	Brooklyn, N. Y. New York City	New York University Portale, Joseph Sebastian	Brooklyn, N. Y.
Fordham	•	Villanova Rackson, Chester Bert	Elmhurst, N. Y.
B.S., Manhattan, 1939	New York City		Belle Harbor, N. Y.
A.B., Columbia, 1944	itestone, N. Y.	Colgate Remnick, Herbert Stanley	Paterson, N. J.
A.B., Columbia, 1944	Flushing, N. Y.	New York University Rifkin, Irving	Los Angeles, Calif.
New York University	New York City	A.B., New York Universit Russell, Raymond Homer	ty, 1943 Ilion, N. Y.
A.B., Gettysburg, 1936	New York City	Union Rypkema, John Alfred	Lodi, N. J.
Fletcher, Roland Anderson Mt. Amherst	Vernon, N. Y.	A.B., Calvin, 1937 Salem, James Joseph	Brooklyn, N. Y.
Yale		Fordham	

BUNGOL	or DENTAL	AND ORNE SE	KG E K 1 39
Santeramo, Eugene Frank	Jamaica, N. Y.	Haufe, Thomas Robert	New York City
Queens		Fordham	
Scheiner, Herman Isaac	New York City	Cornell	
New York University		Imarisio, John Joseph	New York City
Shapiro, Sidney	New York City	A.B., New York Unive	
Hofstra		Kantorowitz, Leo	Providence, R. I.
New York University		B.S., Providence, 1944	
	Port Chester, N. Y.	Klein, Harold Jacques	New York City
New York University	D .1 1 16 1	A.B., New York Unive	
Stuart, Robert Sterling	Portland, Maine	Klickstein, Melvin	Malden, Mass.
A.B., Bowdoin, 1944	- T-1 J C: NI V	Massachusetts State	
Telsey, Daubert Long New York University	g Island City, N. Y.	Trinity (Conn.)	der Brooklyn, N. Y.
Thomson, Joseph John Clay	ton	Korniewicz, John Alexan St. Francis College (N.	
	North Bergen, N. J.	Holy Cross	1.)
St. Peter's (N. J.)	North Deigen, 14. J.	Lazoff, Arthur	New York City
Walsh, Robert Francis	Jamaica, N. Y.	B.S., College of the Cit	
Fordham	Jamaica, 14. 1.	Lewis, Robert Mervin	Newark, N. J.
2 Ordinam		Rutgers	riewani, ri. j.
		Loeb, Morton Samuel	Jamaica, N. Y.
FIRST YEAR—CLASS OF	SEPTEMBER, 1947	Queens	,
Arcabasso, John Bernard	New York City	Colgate	
Ph.G., Columbia, 1939	14CW TOIR City	Lorber, Mortimer	New York City
Arslan, Paul	New York City	New York University	
A.B., New York University		Maillard, Gene Charles	Ridgewood, N. Y.
Auerbach, Gabriel Irving	New York City	Fordham	
B.S., Massachusetts State,		New York University	
Auslander, Irwin Howard	Brooklyn, N. Y.	Mand, Stanley Mervin	Brooklyn, N. Y.
New York University		New York University	
Baurmash, Harold Daniel	New York City	Marmer, David	New York City
New York University	•	A.B., New York Unive	
Blanco-Dalmau, Luis	Rio Piedras, P.R.	Miller, Harold	New York City
University of Puerto Rico		B.S., Long Island, 1939	
Blugerman, John Mark	Brooklyn, N. Y.	M.S., New York Unive	
Columbia		Pino, Rudolph Victor	Brooklyn, N. Y.
	son Heights, N. Y.	B.S., Fordham, 1943	Nia Wash Cita
St. John's University		Prince, Ivin Bittker	New York City
Cava, Nicholas Joseph	Bethpage, N. Y.	A.B., New York Univer Rebhun, Lionel Earl	
Long Island	D 11 N N	College of the City of N	New York City
Deesen, Kenneth Charles	Brooklyn, N. Y.	Robinson, Irwin Schnoll	Great Neck, N. Y.
Queens Massachusetts Institute of '	Tookaalaau	B.S., College of the Cit	
Delasho, James William	Yonkers, N. Y.	Rossi, Albert Onofrio	Huntington, N. Y.
B.S., Manhattan, 1943	Tollkels, IV. 1.	A.B., Columbia, 1940	Huntington, 14. 1.
Disick, Donald	Brooklyn, N. Y.	Scrivani, Steven Silvio	Brooklyn, N. Y.
Brooklyn	Diookiyii, 14. 1.	Brooklyn	210011711, 11. 1.
Engel, Walter Frederick, Jr.	Brooklyn, N. Y.	Stein, Joseph Robert	New York City
Wesleyan	2100111/11, 111 11	College of the City of N	
Englander, Harold Robert	New York City	New York University	
College of the City of New		Cornell University	
Washington Univ. (Mo.)		Yale University	
Friedman, Jay Wolfe	Hempstead, N. Y.	Stern, Eli Sheldon	New York City
North Carolina		New York University	
Giannattasio, Rudolph Camil		Columbia	
	Brooklyn, N. Y.	Stern, Peter Edward	New York City
A.B., Brooklyn, 1942		¹ Senior in Columbia	
Goldman, Elliot Leonard	New York City	Tsacnaris, Harry John	Springfield, Mass.
New York University		Springfield	
Goldwasser, Joseph Max	Brooklyn, N. Y.	Uccellani, Ennio Louis	New York City
Brooklyn		Cornell	
Union Halla, Paul Emil	Mana Manla C'	Zinn, Arthur, Jr.	San Diego, Calif.
New York University	New York City	San Diego State	
THEW TOTA OHIVEISITY		Notre Dame	

¹ Undergraduate student in Columbia University exercising professional option in the School of Dental and Oral Surgery.

POSTGRADUATE STUDENTS CANDIDATES FOR THE CERTIFICATE OF PROFICIENCY

Clinical Dentistry

Chen, Joseph Shanghai, China D.D.S., Aurora Univ. (China), 1937 Lopez, Eugenio Havana, Cuba D.D.S., Havana (Cuba), 1944 Mendoza, Arturo Garcia Havana, Cuba

D.V.M., Havana (Cuba), 1938 D.D.S., Havana (Cuba), 1942

Oral Surgery

White, Joseph Spencer Portland, Me. D.M.D., Tufts, 1921

Orthodontics

Batleman, Bernard Ben Norfolk, Va. D.D.S., Medical College of Virginia, 1941 Bien, Saul Marcus New York City A.B., New York University, 1933 D.D.S., Columbia, 1937 Buch, Yolanda Fredesvinda Oriente, Cuba D.D.S., Havana (Cuba), 1942 Cooper, H. Milton Maywood, N. J. D.D.S., Maryland, 1936 Coven, Jesse Herbert Brooklyn, N. Y. A.B., New York University, 1935 B.S., Illinois, 1936

D.D.S., Illinois, 1938 Estrada, Leonel Medellin, Colombia D.D.S., University of Antioquia (Colombia), 1943

Grenadier, Isidore Mt. Vernon, N. Y. B.S., New York University, 1932

D.D.S., New York University, 1935 arris, Harold Robert New York City Harris, Harold Robert D.D.S., New York University, 1936 Hebert, Onil Quebec, Canada

B.A., Sherbrooke College (Canada), 1939 B.D.S., Montreal (Canada), 1942 D.D.S., Montreal (Canada), 1944

Brooklyn, N. Y. Kaplan, Irwin D.D.S., Pennsylvania, 1943 Lefkowitz, Norman New York City A.B., New York University, 1935 D.D.S., Columbia, 1939 Mercier, Adrien William B.S., Vermont, 1940 Leominster, Mass. D.D.S., Georgetown, 1944 Newman, Herbert Paul West New York, N. J.

D.D.S., Maryland, 1934 Poussin, Ernesto Francisco Havana, Cuba

D.D.S., Havana (Cuba), 1942

D.D.S., University of Antioquia

Reed, Dorothy Margarette Ann Sea Cliff, N. Y. D.D.S., Howard, 1944 Restrepo-Isaza, Hernan Medellin, Colombia

(Colombia), 1944 Zeisse, Carl Narberth, Pa. D.D.S., Pennsylvania, 1921

SPECIAL STUDENTS Berne, Nathaniel K. Vestal, N. Y. B.S., Louisville, 1932 D.D.S., Columbia, 1937 Granados-Espitia, Humberto Tolima, Colombia D.D.S., National University of Colombia, 1940 O'Grady, John Anthony Beloit, Kansas D.D.S., Kansas City-Western, 1925

Polanen, Jean-fils Desire Paramaribo, Dutch Guiana D.D.S., Surinam Medical School

(Dutch Guiana), 1937

SUMMARY

Graduates—September 28, 1944	
Fourth Year—June, 1945	45
Third Year-March, 1946	
Second Year—December, 1946	
First Year—September, 1947	45
Candidates for the Certificate of Proficiency	21
Special postgraduate students	4

Total.....258

CONDENSED ACADEMIC CALENDAR

The complete Academic Calendar for 1945-1946 may be obtained from the Secretary of the University.

1945

July	2	Monday, to July 4,	Wednesday.	Registration	for second,	third, and fourth
		year classes.				

- July 5 Thursday. New academic year begins for second, third, and fourth year classes.
- September 3 Monday, to September 8, Saturday, Vacation.
- September 27 Thursday, Second trimester begins for second, third, and fourth year classes.
- October 1 Monday, and October 2, Tuesday. Registration for applicants for the certificate of proficiency.
- October 1 Monday, to October 3, Wednesday. Registration for first year students.
 October 3 Wednesday. Classes begin for applicants for the certificate of proficiency.
- October 4 Thursday. Academic year begins for first year class.
- November 8 Thursday, to November 10, Saturday. Renewal registration for second, third, and fourth year classes.
- November 22 Thursday. Thanksgiving Day.
- December 17 Monday. Third trimester begins for second, third, and fourth year classes.
- December 24 Monday, to Saturday, December 29. Vacation.

1946

- February 1 Friday. Last day for filing applications or renewal of applications for the degree of D.D.S. to be conferred in March. The privilege of later application may be granted on payment of a late fee.
- February 7 Thursday, to February 9, Saturday. Renewal registration for first year class.
- February 12 Tuesday. Alumni day. Not a holiday.
- March 13 Wednesday. Classes end for second, third, and fourth year classes.
- March 14 Thursday, to March 23, Saturday. Final examinations for second, third, and fourth year classes.
- March 18 Monday. Third trimester begins for first year class.
- March 25 Monday, to March 27, Wednesday. Registration for third and fourth year classes.
- March 28 Thursday. New academic year begins for third and fourth year classes.
- April I Monday, and April 2, Tuesday. Registration for applicants for certificate of proficiency.
- April 19 Friday. Good Friday. Holiday.
- May 29 Wednesday. Last day of classes for first year class.
- May 30 Thursday, to June 8, Saturday. Final examinations for first year class.
- June 10 Monday, to June 15, Saturday. Vacation.
- June 17 Monday. Registration for second year class.
- June 18 Tuesday. New academic year begins for second year class.

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1946 - régistrations are Sept. 9, 10, 11, 1946 cel clare
Clauses start Sept. 12. march 28 to June 8 - 3 Mt 4 4 90 CE 5+26 register for 1/4 of works - u it c

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Dec 5-7, 1946 - regulation 3 nor oth your

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June 3 - July 1, 1947 11 11 22

1945					1946					1946										
JULY				JANUARY					JULY											
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5	6	7	8	- 1	10	_	3	4	5	6	7	8	9		5	6	7		9 16	10 17-
12	13	14 2I	15	23	24		10			13 20		22			19		-	22	23	24
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Columbia University BULLETIN OF INFORMATION

Forty-sixth Series, No. 30

June 22, 1946

ANNOUNCEMENT OF THE

SCHOOL OF DENTAL AND

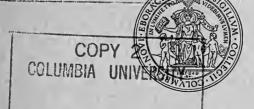
ORAL SURGERY

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Columbia University Bulletin of Information

Forty-sixth Series, No. 30

June 22, 1946

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These include the Report of the President to the Trustees, and the Announcements of the several Colleges and Schools and of certain Divisions, relating to the work of the next year. These are made as accurate as possible, but the right is reserved to make changes in detail as circumstances require. The current number of any of these Announcements will be sent upon application to the Secretary of the University.

C. U. P. 13,500-1946.

COMMUNICATIONS

All communications regarding the School of Dental and Oral Surgery, application for admission, and appointments for personal interviews should be addressed to the School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N.Y.; telephone Wadsworth 3-2500.

PRINTED FOR THE UNIVERSITY BY
COLUMBIA UNIVERSITY PRESS

Columbia University in the City of New York

ANNOUNCEMENT OF THE

SCHOOL OF DENTAL AND ORAL SURGERY

OF THE

FACULTY OF MEDICINE



1946-1947

columbia-presbyterian medical center 630 west 168th street new york 32, N.Y.



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FRANK E. BEUBE	. Assistant Professor of Dentistry [Periodontology]
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Wilfred Monroe Copenhaver	. Associate Professor of Anatomy
Howard James Curtis	Associate Professor of Physiology D., Yale, 1932.
¹ On leave 1946-1947.	

SCHOOL OF DENTAL AND ORAL SURGERY 5
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Moses Diamond Associate Professor of Dental Anatomy D.D.S., New York College of Dentistry, 1914.
Alb., Johns Hopkins, 1903; M.D., 1907; Sc.D., New York University, Surgical Research 1925; Yale, 1926; Western Reserve, 1931.
BION R. EAST . Associate Dean (Dentistry), Executive Officer of the Department of Dental and Oral Surgery, Professor of Dentistry [Public Health Practice] D.D.S., Michigan, 1908.
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D.D.S., Pennsylvania, 1929. [Operative]

M.D., Berne, 1921.

Associate Professor of Biochemistry B.S., College of the City of New York, 1917; A.M., Columbia, 1920; Ph.D., 1925.

Assistant Professor of Dentistry D.D.S., New York College of Dentistry, 1924. [Operative]

¹ On leave 1946-1947.

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¹ On leave 1946-1947.

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[Orthodontics]
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¹ On leave 1946-1947.

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¹ WILLIAM CARL WOHLFARTH, JR., Ph.B., D.D.S Assistant in Dentistry [Prosthetics]
Frederick F. Yonkman, M.D Lecturer in Pharmacology

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1 On leave 1946-1947.

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AT SCHOOL OF DENTAL AND ORAL SURGERY

THE SCHOOL OF DENTAL AND ORAL SURGERY

Columbia University was founded in 1754 as King's College by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The Revolutionary War interrupted its active work, but in 1784 it was reopened as Columbia College. In 1912 the title was changed to Columbia University in the City of New York.

From its inception, the program of dental education in Columbia University has been fostered by and associated with the University's School of Medicine. The Faculty of Medicine at its stated meetings of November and December, 1915, recommended to the Trustees that a Dental School be established in the University on

"University Lines."

The President of the University in his annual report of 1916 informed the Trustees that "during the year a group of men have come forward with a well-supported proposal that there be established in connection with the Medical School, a school for the training of dental surgeons." The President also reported that "the project was carefully formulated and presented to the Medical Faculty and received the formal approval of that Faculty and later of the Trustees."

In May, 1916, the University issued a pamphlet entitled A Dental School on University Lines. In this pamphlet the University stated its intent to establish a school of dentistry in affiliation and coördination with the School of Medicine. The pamphlet's introductory statement outlined the University's policy for dental education

which has been consistently followed:

"Dentistry and Dental Education are on the threshold of extraordinary development but are unable to take advantage of their opportunities because of the traditional separation of dentistry and medicine. Dentistry has been shown by recent investigations and research to be logically a branch of general medicine."

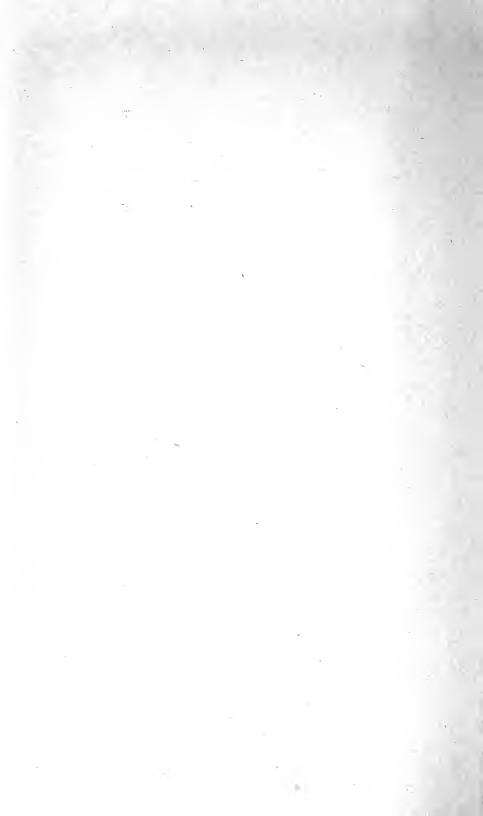
In the fall of 1917 Mr. James N. Jarvie gave a substantial sum to a fund "to found and maintain the proposed dental school of the University, described in the pamphlet entitled A Dental School on University Lines issued by Columbia University, May 1916."

In September, 1916, students in dentistry were admitted to courses in Columbia University at the School of Medicine. On March 5, 1917, the Trustees of the University established a school of Dentistry as of September 27, 1916, and from that date the School became an integral part of the University. On March 1, 1920, the dental building adjacent to the School of Medicine and Vanderbilt Clinic was finished and assigned to the use of this school.

On July 1, 1923, the College of Dental and Oral Surgery of New York (organized in 1905) was merged with the School of Dentistry, and the combined institutions named the School of Dental and Oral Surgery of Columbia University. By this merger Columbia acquired two large buildings, at 302–306 East 35th Street and 309–315 East 34th Street, in which the School was housed up to the time of moving into the Medical Center.



THE MEDICAL CENTER, INCLUDING THE SCHOOL OF DENTAL AND ORAL SURGERY WING AT THE RIGHT



The merging of the schools did not alter the University's policy for dental education. In the 1923-1924 Announcement of the School of Dental and Oral Surgery, this policy was reaffirmed by the statement, "It is the purpose of the School of Dental and Oral Surgery to combine in the highest degree practicable a sound knowledge of the fundamentals of medicine with adequate training in the technical procedures of dental science and art."

In September, 1928, the School was moved to the Columbia University-Presbyterian Hospital Medical Center. The dental department of the School occupies the three upper floors of the Vanderbilt Clinic wing, a net floor area of 40,000 square feet. The fundamental science subjects, which are given to both dental and medical students, are taught in the adjoining College of Physicians and Surgeons, the corridors of the two schools being continuous. In adjacent wings, the halls of which are also continuous with those of the School, the wards and out-patient departments of the Presbyterian and associated hospitals are located, thus giving the closest possible contact and association with all branches of health service. The Dental School clinic includes as one of its functions the dental care of the patients of the Medical Center hospitals.

In order to strengthen the instruction of dental and medical students and to fulfill a further step in the integration of dental education and research with the medical program at the Columbia-Presbyterian Medical Center which was visualized when the Dental School was made a part of the Center in 1928, the Faculties of the two schools were merged July 1, 1945. This Faculty is responsible for the educational programs in Medicine, Dental and Oral Surgery, Public Health, Nursing, Graduate and Postgraduate Medical and Dental Education. A Committee on Dental Education, established by University statute, of which a majority shall be from the Department of Dental and Oral Surgery and of which the Associate Dean for Dental and Oral Surgery shall be the chairman, will initiate recommendations to the Faculty on the qualifications and admission requirements for dental students, the curriculum of instruction, the candidates for the degree of Doctor of Dental Surgery, and other educational matters dealing with dentistry.

The course in dentistry covers four academic years leading to the degree of Doctor of Dental Surgery. The greater part of the first two years of the curriculum is taken in the fundamental science departments of instruction in the University which are integral parts of the College of Physicians and Surgeons and the School of Dental

and Oral Surgery.

STUDENTS

After having received an admission permit the student may proceed to register, in the stated registration period (see Academic Calendar), for such prescribed or elective courses of instruction as are appropriate for his purposes. Acceptance of a student for admission is based on grounds of character and health, as well as on the fulfillment of academic requirements.

Each person whose registration has been completed will be considered a student of the University during the session for which he is registered unless his connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the consent of the appropriate Dean or Director.

Students prevented by conscientious scruples from complying with academic requirements which may be fulfilled only upon days set apart by their church for religious observance should make application to the appropriate authority for equitable relief.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University, which is free to cancel his registration at any time on any grounds which it deems advisable. The disciplinary authority of the University is vested in the President in such cases as he deems proper, and, subject to the reserved power of the President, in the Dean of each Faculty and the Director of the work of each Administrative Board.

GRADUATION

Commencement occurs in June, at which time all recipients of degrees awarded during the academic year are expected to attend the exercises unless excused. Diplomas are issued in June or at various times during the year.

No degree will be granted to a student who has not registered for and attended at the University courses of instruction equivalent to at least one academic year of

full-time work.

An application for a degree or certificate, other than the several doctoral degrees, terminates at the next regular time for the issuance of diplomas subsequent to the date of filing; but under conditions prescribed by the respective Faculties it may be subject to renewal for a fee of \$1.00 each time that a candidate chooses to come up for consideration, within a period not to exceed three years. Thereafter with the filing of a second application the regular fee is again payable—\$20 in the case of a degree and \$10 in the case of a certificate.

Dates for the filing of applications are given in the Academic Calendar at the end

of this Announcement.

WITHDRAWAL

An honorable discharge will always be granted to any student in good academic standing, and not subject to discipline, who may desire to withdraw from the University; but no student under the age of twenty-one years will be entitled to a discharge without the assent of his parent or guardian furnished in writing to the proper Dean. Students withdrawing must notify the Registrar immediately.

The Dean of the school may, for reasons of weight, grant a leave of absence to a

student in good standing.

ANNOUNCEMENTS

The Announcements of each college or school, of the Summer Session, of University Extension, and of the several divisions may be obtained without charge from the Secretary of the University.

Letters requesting more detailed information than is contained in the Announcement, and all correspondence regarding admission, should be addressed to the Dean, School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y.

LIBRARY

The library is one of the most vital adjuncts of the School. Second largest medical library in the United States connected with a school of medicine, it performs three major functions, namely: provides a sound collection in the historical literature of most branches of medicine; serves students and faculty alike through keeping up with current literature (both texts and journals) and by acquiring unusual and sometimes obscure material; and through a well developed inter-library loan system, encourages and assists in advanced research.

The library, with seating accommodations for 250 readers, now contains more than 125,000 volumes and about 10,000 pamphlets and occupies a part of three lower floors of the main administration building of the Medical Center. A trained library staff provides specialized services to meet the needs of students, residents, faculty, and research workers of the combined Medical School, Dental School, School of

Public Health, School of Nursing, and hospital units.

The periodical room on the upper floor is especially equipped to foster and encourage research work. Here are received over 1,200 current journals, and nearby are shelved files of reviewing, indexing, and abstracting services as well as a selection of the more important journals. All other journals are shelved in the stacks.

University Libraries. The libraries on Morningside Heights are open to all students of dentistry, and books may be borrowed for home use. They include collections on anatomy, biochemistry, public health, nursing, and other subjects related to dentistry and supplement the special collections available in the College of Physicians and Surgeons and in the New York Academy of Medicine, Fifth Avenue at 103d Street. The library of the College of Pharmacy, 115 West 68th Street, is also open to students in the School of Dental and Oral Surgery.

UNIVERSITY PRIVILEGES

As the School of Dental and Oral Surgery is an integral part of Columbia University, its students enjoy all the privileges and facilities open to members of other departments of the University. They may reside in the University Residence Halls at Morningside Heights and are eligible to membership in the various social and other organizations of the student body.

University Gymnasium. The Gymnasium is situated on Morningside Heights and is open daily until 6 p.m. during the academic year, except on Sundays and legal holidays. It will also be open evenings from 6 to 9:30 p.m. on days to be announced. On holidays it is open from 3 to 6 p.m. One or more of the instructors are on duty at all times when the Gymnasium is open. Students of the School of Dental and Oral Surgery may enjoy its privileges and have the use of the Gymnasium and baths and a private locker. The student is entitled also to a physical examination by the University Medical Officer, who, on the basis of such an examination, will give advice as to the kind and amount of exercise best adapted to the needs of each man. The Gymnasium is large, thoroughly equipped, and under the immediate supervision of the Professor of Physical Education, who is assisted by a corps of able instructors.

Employment. The Appointments Office, located in Alumni House, is the central placement department of the University through which students and graduates are

referred to suitable positions. For the convenience of the dental students, a division of the office is operated at the Medical Center in coöperation with the office of the Dean of the School.

It is the function of the Appointments Office to endeavor to secure for competent men and women students who need to work their way through the University, the opportunity to earn enough for their partial support. It is the experience of the office, however, that it is practically impossible for dental students to undertake outside part-time work during the academic year without seriously jeopardizing their schoolwork and their health. In general, the office advises students who are unable to pay the complete cost of attending the School to withdraw for a year in order to earn the money necessary to enable them to give undivided attention to their academic work.

MEDICAL ATTENDANCE

A medical examination is given to each student annually. Provision has also been made at the Medical Center for examination and advice in cases of minor illnesses and for treatment of emergencies. All entering students are required to have a dental examination in the School and to have all necessary dental work completed prior to graduation.

KING'S CROWN HOTEL

The King's Crown Hotel, 420 West 116th Street, in close proximity to the University, is owned by the University. It provides accommodations at reasonable rates, available for relatives and guests of members of the University community.

INTERNATIONAL HOUSE

International House, 500 Riverside Drive, is a privately endowed residence for students from foreign lands and a limited number of American students. It accommodates 175 women and 325 men and contains a restaurant and social rooms. Inquiries should be addressed to the Committee on Admissions, International House, 500 Riverside Drive, New York 27, N. Y.

EARL HALL

Earl Hall was given to Columbia University by the late William Earl Dodge for the religious and social activities of the students. On the main and upper floors, reached by the campus entrance, are the offices of the Chaplain of the University and his staff and the offices of the three Religious Counselors. These floors also contain an auditorium and other facilities for extensive religious and social activities. The lower floor, entered from Broadway, is occupied by the offices of the University Medical Officer.

UNIVERSITY BOOKSTORE

For the convenience of the medical and dental students, the University Bookstore maintains a branch on the second floor of the College of Physicians and Surgeons. In addition to medical and dental textbooks, the store carries a stock of new and used microscopes, laboratory equipment, and student supplies. The textbooks are sold at

discounts from the usual prices whenever such discounts are permitted by the publishers. The store is opén from 8:30 a.m. to 6 p.m. daily; during the first days of the opening session, until 10 p.m.

A GUIDE TO COLUMBIA UNIVERSITY

A description of the grounds and buildings of the University will be found in *A Guide to Columbia University*, which is published by Columbia University Press, 709 Journalism, at \$.75, clothbound. The book also contains an account of the University's history and traditions.

REQUIREMENTS FOR ADMISSION, PROMOTION AND GRADUATION

ADMISSION TO FIRST YEAR OF THE SCHOOL OF DENTAL AND ORAL SURGERY

Application. It is desirable that candidates make application during the academic year preceding that in which they seek admission. It is not necessary to complete the academic requirements before making application. However, all requirements must be completed before matriculation. Application blanks will be furnished by the Dean's office of the School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y. Application blanks must be completely filled in and accompanied by an official transcript of the college record.

The minimum requirement for admission to the first-year class is the satisfactory completion of three full years at an acceptable college of arts and sciences, which must include the satisfactory completion of the courses required for the dental student qualifying certificate as mentioned below.

The New York State Board of Regents includes the following subjects in the minimum requirements for the qualifying certificate:

77 11.1	Semester Hours
English composition and literature	. 6
Physics	6
Biology	. 6
Chemistry (including an approved course in organic chemistry)	12

A point or semester hour is the equivalent of one hour of lecture or recitation or of two hours of laboratory work per week, per semester. Suitable laboratory work must be included in each of the courses in science.

Inasmuch as an understanding of the biological sciences is based upon the knowledge of the underlying sciences of chemistry, physics, and biology, students are urged, so far as time permits, to take additional courses in quantitative, qualitative, physical, and organic chemistry, physics, comparative anatomy and other advanced courses in biology, as well as courses in mathematics, German and French, sociology, history, and other subjects of general cultural and scientific value. Courses in fine and industrial arts are also of value.

Owing to the limited number of students who can be accommodated, completion of the requirements for entrance does not guarantee admission. The entire predental record of each student is carefully examined by the Committee on Ad-

missions in order that those who are adjudged most capable of meeting the exacting demands of the course and of the profession of dentistry may be selected. Preference will be given in the selection of students to those who present to the Committee on Admissions evidence of high achievement in selected college courses of special predental value and who are most likely to succeed in dentistry, rather than to those who present the largest number of course credits or those who have limited their preparation to the prescribed subjects.

COMBINED COURSES

Combined Courses with Columbia College. Upon receiving ninety-four points credit, sixty-four of which must be for work in Columbia College, including all the work prescribed for the degree of Bachelor of Arts in Columbia College, a student may take studies in the first year of the School of Dental and Oral Surgery, provided he can satisfy the stated requirements and is accepted for admission therein, and will receive the degree of Bachelor of Arts from Columbia College upon the satisfactory completion of the year's work. No course may be counted toward a professional degree and at the same time be included among those which go to make up the ninety-four points referred to above.

Students from Barnard College may exercise the professional option after the completion of 90 points of academic work, including all grouped work and a major of 28 points unless this number is reduced in individual cases by special permission of the Committee on Instruction of Barnard College.

Combined Courses in Dentistry and Medicine. It is usually possible for a graduate of a registered medical school with the degree of Doctor of Medicine to meet the requirements of the School and receive the degree of Doctor of Dental Surgery by the satisfactory completion of a special two-year course.

COURSES FOR DENTAL HYGIENISTS

The courses in dental hygiene offered by the School of Dental and Oral Surgery are intended for women who desire to become licensed dental hygienists. The requirements for admission are the completion of at least four years of high school work, including certain specific subjects, the attainment of at least eighteen years of age, and the qualifying certificate obtained from the Department of Education of the State of New York. Preference will be shown for applicants who have satisfactorily completed two or more years of college work. For full information address the Dean, School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y.

Note: Starting in the Fall of 1947 it is planned to increase the period of training from one to two academic years, and to require for admission a minimum of two years of satisfactory college work at a college or university acceptable to Columbia University. The possibility of granting a Bachelor's degree in addition to the Certificate in Dental Hygiene is under consideration. During the transition well-qualified individuals with less than two years of college work may be accepted for the certificate only.

SHORT COURSES FOR GRADUATES IN DENTISTRY

The School of Dental and Oral Surgery arranges courses in the various divisions of dentistry to meet the needs of groups of practitioners. In 1946–1947 short refresher courses will be offered in various subjects in accordance with demand.

Admission requirements include graduation from an approved dental school and licensure to practice dentistry within the United States or a foreign country. There is no degree or certificate offered for these specially arranged courses. Applications should be sent to the office of the Dean, School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y.

CERTIFICATE OF TRAINING

The School of Dental and Oral Surgery is authorized to grant a certificate of training in dentistry or in a special branch of dentistry selected by the candidate and approved by the School of Dental and Oral Surgery to students who have been graduated from an acceptable school of dentistry in the United States or a foreign country.

The course of study for the certificate of training includes not less than forty-eight trimester credits of special work in the clinical branches of dentistry approved by the Dean. At present, an organized fourteen months' course is offered to qualified graduates in dentistry who wish to prepare for specialization in orthodontics. Advanced courses leading to certificates of training are also offered in Oral Surgery, in General Dentistry, and in Periodontology. For special information see the Announcement of Advanced and Graduate Courses in Dentistry, which may be obtained from the Dean, School of Dental and Oral Surgery.

FELLOWSHIPS

A limited number of fellowships are available to graduates of dental schools acceptable to Columbia University. These fellowships offer opportunity for study in the following basic science departments of the University: Anatomy, Bacteriology, Biochemistry, Pathology, Pharmacology, and Physiology. For further information regarding qualifications and stipend, address the Dean, School of Dental and Oral Surgery.

GRADUATE COURSES

Graduation from accredited dental schools under the present curriculum of four academic years preceded by three acceptable predental college years is considered by the Graduate Faculties of Columbia University as meeting the general requirement for admission. There are additional admission requirements in certain departments. A student who is accepted by the Graduate Faculties as a candidate for the degree of Doctor of Philosophy and who holds the Doctor of Dental Surgery degree from Columbia University may, with the consent of the Dean, offer the work done for the professional degree in lieu of thirty points toward the fulfillment of the resident requirement for the degree. For further information see the Graduate Announcement.

PUBLIC HEALTH FOR DENTISTS

A one-year course leading to a Master of Science degree in public health is offered by the School of Public Health. The course is open to graduate dentists. For information regarding course content, registration, and fees apply to the Director, School of Public Health, 600 West 168th Street, New York 32, N. Y.

REGISTRATION

Before attending University courses, every student must present himself at the office of the Registrar and file a registration blank giving such information as may be required. The periods set aside for registration in each session are stated in the Academic Calendar at the end of this Announcement. Registration at a later date is permitted only on the written permission of the Dean, satisfactory cause for the delay having been shown.

The University Statutes provide that tuition fees, the University fee, and laboratory deposits are payable semiannually in advance. No reduction is made for late registration. Registration will not be complete until such fees are paid. Checks should be drawn to the order of Columbia University and presented in person or mailed to the office of the Bursar. Payment of fees after the last day of registration (see the Academic Calendar) imposes automatically the statutory charge of \$3.00 for this privilege. Under the regulations, the privileges of the University are not available to any student until he has completed his registration.

The fees to be paid by students are subject to change at any time at the discretion of the Trustees.

The following fees are prescribed for dental students:	
(a) University Fee For all students for each session, or for any part thereof	\$10.00
(b) Tuition Fee For the course in dentistry for one half an academic year (or equivalent) in the case of a student enrolled for the full course For students not enrolled for the full course, fees are to be assessed by the r as provided by the University Statutes.	300.00
Application For a degree For a certificate	20.00 10.00
 (d) Privileges 1. Late registration or late application for a degree or certificate or for deficiency or special examinations 2. Deficiency or special examinations 3. Renewal of application for any degree or certificate 	3.00 3.00 1.00
 (e) Student Activities (payable annually) For all students, Columbia Dental Review 2. For sophomores, juniors, and seniors, junior membership in the American Dental Association . 3. Student activities . 	2.00 3.00 .50

(t)	Case Rental	
	For sophomores, juniors, and seniors, rental for one instrument case, for each semester	\$2.50
(g)	Rebates	
	1. The University fee and the fee for application for any degree or certificate shall not be subject to rebate.	
	2. If a student withdraws from the School a partial return of tuition fee may	
	be authorized by the Registrar.	
	When a rebate is allowed for the discontinuance of courses or withdrawal from the University, such rebate will be reckoned from the day upon which the Registrar receives notice from the student.	
(h)	Deposit	25.00
	Required of each student to cover material and breakage in the laboratories and clinic. The deposit for breakage includes apparatus to replace broken articles or articles not returned at the close of the course; any chemicals not in the kit of chemicals supplied to each student, or additional quantities of chemicals beyond this allowance; and service in washing apparatus or work	

Acceptance Fee. Within two weeks after an applicant has been notified that his application has been accepted, he must notify the Dean that he intends to matriculate and accompany his communication with a check or money order for \$50, payable to Columbia University. This acceptance fee will belong to the University and, if he does not register at the School for the specific session, it will not be returned. If he registers at the School at the next enrollment of entering students, the amount of the acceptance fee will be deducted from his tuition fees for that session.

by a mechanic. Refund of any balance will be made upon the completion of

the prescribed course or withdrawal from the School.

Instruments and Supplies. Each student is required to supply himself with instruments as specified in the official instrument list. The purchase from the University of instruments in original package outfits has been made compulsory, and unauthorized or incomplete equipment will not be accepted by the instructors. All technic material and regular supplies must be purchased from the University upon order from the instructor. The students will not be allowed to purchase more than is required to complete a case. The quantity and quality are selected with a view to the best possible results and conservation of the student's best interests.

Microscopes. All students entering the School of Dental and Oral Surgery are required to provide themselves with microscopes of a satisfactory type. A microscope of standard make fitted with the following attachments will fill the requirements:

Triple nosepiece 10x and 6x oculars

Abbe condenser 16 mm. and 4 mm. objectives

Oil immersion lens

The cost of a suitable reconditioned microscope varies from \$60 to \$100, depending on the make and model. The standard price of new microscopes is \$155. (At present microscopes are difficult to obtain at any price.) Each student should also provide himself with a substage lamp. During the national emergency it is possible to rent microscopes from the University Book Store at a rental fee of \$25 for an academic year.

Lockers. Each student will be assigned a locker on entering and will be required to use a combination lock as prescribed by the School.

ESTIMATED EXPENSES

Following is an itemized estimate of the average expenses of a full-time student for an academic year in the School of Dental and Oral Surgery exclusive of travel, clothing, amusements, charity, organizations, and sundries. These items are, of course, variable, but should not be overlooked in estimating the total expense. The tuition, room, board, books, and laundry figures are based upon the rates which prevailed during 1945–1946 and can be accepted as applicable in general for the year 1946–1947 unless national economic changes require their alteration.

						Average	Minimum
Tuition and fees						\$655.00	\$630.00
Room						260.00	190.00
Board						385.00	350.00
Books						80 .00	40.00
Instruments (see below)						300.00	300.00
Laundry						50.00	36.00
						\$1,630.00	\$1,446.00

These estimates are subject to correction as the basic prices of supplies and instruments change. Instruments are to be paid for at the opening of the academic year. The cost of books will vary, depending upon the choice made from the selection offered.

REQUIREMENTS FOR PROMOTION

1. A student may be admitted to the second, third, or fourth year of the dental curriculum only upon the recommendation of the class officers of instruction under which he has studied during the preceding year.

2. The School of Dental and Oral Surgery reserves the right to refuse readmission or promotion to any student who is believed for any reason to be unsuited to the conditions of study in this school.

Students are classified for readmission or promotion under the following headings:

- I. Recommended for advancement
 - a) Unconditionally
 - b) Conditionally
- II. Recommended for readmission to the same class
- III. Recommended neither for advancement nor for readmission to the same class
 - a) Because of failure
 - b) Those who fall under paragraph 2 of rules for advancement of students

GRADING OF STUDENTS

The following grade equivalents are used: A, excellent; B, good; C, fair; F, failure.

REQUIREMENTS FOR GRADUATION

In addition to complying with the requirements for admission and to completing the required work of the curriculum, each candidate for the degree of Doctor of Dental Surgery must present satisfactory evidence as required by law of good moral character and of having attained the age of twenty-one years. If the candidate shall have been admitted to advance standing, he must have spent not less than four academic years or their equivalent in approved medical or dental colleges in the study of the subjects making up the curriculum of the School of Dental and Oral Surgery.

NATIONAL BOARD OF DENTAL EXAMINERS

The National Board of Dental Examiners provides an examination in the theory of the science of dentistry. The clinical examination, in every instance, is reserved for the state examining board. A certificate of qualification will be issued to each candidate approved by the National Board when the candidate has been in actual practice for three years after his graduation and has submitted new and satisfactory evidence of his moral and ethical standards of professional conduct. To date the following states have dental laws permitting their licensing authorities to recognize the certificate of qualification of the National Board of Dental Examiners: Alabama, Connecticut, Delaware, Georgia, Indiana, Iowa, Illinois, Kansas, Maine, Minnesota, Nebraska, Oklahoma, Pennsylvania, South Dakota, and Virginia.

Only such undergraduates as may be certified by their respective deans shall be eligible to the National Board examinations. The examinations are held in two separate parts. Part I, which is open to undergraduate candidates who have met the predental requirements and have successfully completed the first two years of work in an approved dental school, consists of a written examination in the following sciences: anatomy, general and dental; bacteriology; physiology; general pathology; histology, general and dental, including embryology; physiological chemistry and metallurgy. Part II, which is open to undergraduate candidates who have passed Part I and have successfully completed the senior year or are eligible for the final examinations of the senior year in an approved dental school, consists of a written examination in each of the following subjects: operative dentistry; materia medica and therapeutics; prosthetic dentistry, including partial and full denture, fixed and removable bridgework, and crown construction; oral and dental surgery; orthodontia, radiology, jurisprudence and ethics; oral pathology and anesthesia. Usually the examinations are given twice a year, in January and May. Application should be made to GORDON L. TEALL, D.D.S., Secretary of the National Board of Dental Examiners, Hiawatha, Kansas.

LICENSE TO PRACTICE DENTISTRY IN NEW YORK STATE

Those desiring to take the New York State Board examinations are advised to address the Chief of Professional Examinations Bureau, New York State Department of Education, Albany, New York. All applications for admission to the examinations should be completed at least fifteen days before the examinations begin.

The examinations are conducted by the Department, and answer papers are read and marked by the Board, who know the candidate only by number. The subjects of the licensing examinations are anatomy, chemistry and metallurgy, operative dentistry and radiography, therapeutics and materia medica, physiology and hygiene, oral surgery, pathology and bacteriology, prosthetic dentistry, and histology. The operative and prosthetic subjects are divided into theory and practice. The minimum standing required in each subject is 75 percent.

The State Department of Education will admit conditionally to the examinations in anatomy, physiology, chemistry and metallurgy, and histology, applicants over nineteen years of age who are of good moral character, who are citizens of the United States or have declared the intention of becoming citizens in accordance with the law, and who are certified as having successfully completed the first two years

of the required course in a registered dental school.

FELLOWSHIPS, SCHOLARSHIPS, AND PRIZES

Recipients of Universty financial aid in excess of tuition, whether in the form of fellowships, scholarships, or other grants, will be asked to reside in the University Residence Halls unless exempted by the appropriate Dean with the approval of the President upon the presentation of adequate reasons for living elsewhere.

Two Ellis Fellowships are awarded annually to qualified graduates of any of the colleges of recognized rank in the state of Vermont. The holders of these fellowships may pursue resident graduate studies under any one of the graduate schools maintained by the University, and are eligible for reappointment for not more than two additional years, with the proviso that a holder of the fellowship who is a student in medicine may be eligible for reappointment for not to exceed three additional years. The annual stipend is \$1,600. Applications should be submitted on or before March 1 on blanks to be filed with the Secretary of the University.

Three scholarships of tuition value in the School of Dental and Oral Surgery are awarded annually. These scholarships are open to students from outside the metropolitan area whose records of scholarship and special fitness for dentistry make them

particularly desirable to the School.

A prize known as the Ella Maria Ewell Medal is awarded annually to that student of the School of Dental and Oral Surgery who, in the judgment of the Faculty, is most proficient in some subject of dentistry. The branch of dentistry for which the award is made is determined by the executors of the will of Grover C. Beckwith-Ewell.

The Van Woert Scholarship Fund was established by the alumni of the School of Dental and Oral Surgery in 1940. The award is given annually to a senior student in the dental school who stands high in scholastic attainments, in personal character, in potentiality of being a credit to Columbia University and the dental profession, and who is in need of financial aid.

The Alumni Association makes an annual award of the Rowe-Wiberg Medal to the senior student who has shown the greatest proficiency in prosthetic dentistry. An annual award is made by the Sigma Epsilon Delta Fraternity to the graduating

student who, in the opinion of the Faculty, shows the greatest promise.

An annual prize for excellence in Pedodontics has been established by the Class of 1929.

OMICRON KAPPA UPSILON

Epsilon Epsilon chapter of Omicron Kappa Upsilon, national honorary fraternity, was chartered in the School of Dental and Oral Surgery in 1934. The purpose of this organization is to recognize and honor scholarship and, especially, character of outstanding quality in members of the senior class. The leading 12 per cent of the graduating class is eligible for election each year.

THE WILLIAM JARVIE SOCIETY

The William Jarvie Society for Dental Research is a nonsecret, dental honor society, membership in which is based upon scholarship and interest in dental research, and to which sophomores, juniors, and seniors are eligible. The society was organized in the School of Dental and Oral Surgery in 1920 and named after Dr. William Jarvie because of his wide interest in the promotion of dental research. The society aims to promote the spirit of research among the students.

THE DENTAL ABSTRACT SOCIETY

The Dental Abstract Society is open to all students and staff members who are interested in current dental literature. Monthly meetings are held, at which abstracts of selected articles from current periodicals are read and discussed.

THE ASSOCIATION OF THE ALUMNI OF THE SCHOOL OF DENTAL AND ORAL SURGERY

President, EDWARD R. WHITE President-elect, Julius Horn Vice-President, Morris Fierstein Secretary, William Giblin Treasurer, Hannah J. Appel Editor, John J. Mayers

Any graduate, former student, officer of instruction, or administrative officer of the School of Dental and Oral Surgery is eligible to membership in the Association of the Alumni of the School of Dental and Oral Surgery of Columbia University.

CURRICULUM

Subject	Trimester Credits	Lecture Hours	Lab. or Clinic Hours	Total Hours
FRESHMAN YEAR:				
Anatomy				
Embryology	2	20		20
Gross	15	60	262	322
Microscopic	8	38	126	164
Neuro	4	60		60
Oral	6 8	18	95	113
Histology, oral		35	105	140
Physiology	10	7 56	148	68 204
SOPHOMORE YEAR:	55			1,091
Bacteriology	7	40	00	
Crown and bridge	4	40 10	90	130
Dental materials	2		40	95 40
Oral hygiene	, 2	20		20
Operative dentistry	9	20	220	240
Pathology		70	130	200
Periodontology	1		30	30
Pharmacology	6	50	30	8o
Prosthetic dentistry	10	20	210	230
Psychopathology	I	10		10
Radiology	I	10		10
Surgery, oral	2	20		20
JUNIOR YEAR:	56			1,105
Anatomy, applied	1	10		10
Technic	6	10	105	115
Clinic	1		30	30
Porcelain	2		60	6 o
Applied occlusal dynamics	ı		30 -	30
Diagnosis, dental	4	30	30	60
Operative dentistry Orthodontics	11	20	300	320
Pathology, oral	5	20	75	95
Periodontology	4	20	60	80
Prosthetic dentistry	7	20	30 150	30 170
Public health	2	20	1,00	20
Radiology	ı		30	30
Surgery, oral	2	10	30	40
Theory and practice	2	20		20
Therapeutics	I	10		10
SENIOR YEAR:	51			1,110
Crown and bridge	6	10	150	160
Diagnosis, dental	I		30	30
Operative dentistry		20	330	350
Pedodontics	4	10	90	100
Periodontology	3	20	25	45
Practice of medicine	5 6	40	20	60
Surgical prosthesis		10	150	160
Surgery, oral	4	 40	30 60	30 100
Theory and practice	I I	10		100
Senior electives	44			1,045
Oral pathology		15		15
Oral surgery	1	30		30
Orthodontics			30	30
Public health			48	48

COURSES OF INSTRUCTION

For purposes of instruction the work of each academic year is scheduled in three sessions which are designated as First, Second, and Third Trimesters. The unit of credit signifies approximately three academic hours of work a week for one session. For classroom work this means one hour a week in class and an average of two hours of homework. For laboratory or clinical work it represents three academic hours of work a week in the School.

For a detailed statement of the content of each course, the student is referred to the departmental statements which follow. Courses numbered from 100 to 199 are open to candidates for the degree of Doctor of Dental Surgery in the first and second academic years. Courses numbered from 200 upward are open to candidates for the degree of Doctor of Dental Surgery in the third and fourth academic years.

The outline on page 26 shows the work required of a candidate for the degree of Doctor of Dental Surgery. The University reserves the right to make such changes

in the program of studies at any time as experience may prove desirable.

ANATOMY

Anatomy 101—Oral anatomy. Freshman year. 6 credits.

Lectures, recitations, and laboratory on the growth and development of the jaws and face and the individual teeth, the structural formation of the teeth, the anatomy of the surrounding and related tissues of the oral cavity, and the morphology of the teeth.

Anatomy 115—Oral histology and embryology. Freshman year. 2 credits.

Lectures and laboratory on the microscopic structures of the oral tissues and the application of this knowledge to technical dentistry.

Anatomy 150-Microscopic anatomy. Freshman year. 8 credits.

Lectures, conferences, and laboratory.

This course is the same as Anatomy 101F in the Medical School.

Anatomy 151—Gross anatomy. Freshman year. 15 credits.

Lectures, conferences, and laboratory.

Anatomy 152—Embryology. Freshman year. 2 credits.

Lectures and demonstrations dealing with the dynamics of vertebrate development, with particular reference to mammals and man.

Anatomy 153-Neuroanatomy. Freshman year. 4 credits.

Lectures and demonstrations on the gross anatomy, structure, and functions of the central nervous system. This course is equivalent to *Anatomy 106S* in the Medical School.

Anatomy 252—Applied anatomy of the head and neck. Junior year. 1 credit.

Lectures and demonstrations. A review course with special application to the problems of the major fields of dentistry.

BACTERIOLOGY

Bacteriology 151—General medical bacteriology and immunology. Sophomore year. 4 credits.

Lectures, conferences, and laboratory.

Bacteriology 152—Principles of bacteriology, epidemiology, infection, immunity, serum diagnosis, and specific therapy. Sophomore year. 3 credits.

This course is identical with *Bacteriology 105F* in the Medical School except that lectures on the mouth bacteria are substituted for several of those of the medical series.

BIOCHEMISTRY

Biochemistry 150—Introductory biochemistry. Freshman year. 8 credits.

Lectures and laboratory. A study of the chemistry of life processes with special reference to the animal organism.

CROWN AND BRIDGE

Crown and Bridge 105—Crown and bridge lectures and technic. Sophomore year. 4 credits.

Lectures on the technical procedures in crown and bridgework with practical application, and the construction of bridges and crowns on technic models.

Crown and Bridge 205—Crown and bridge lectures and technic. Junior year. 6 credits.

Lectures on the technical procedures in crown and bridgework with practical application, and the construction of bridges and crowns on models and extracted teeth.

Crown and Bridge 206—Crown and bridge clinic. Junior year. 1 credit.

Clinical construction of elementary crown and bridgework.

Crown and Bridge 207—Porcelain technic. Junior year. 2 credits.

Uses of porcelain; construction of porcelain jacket crown on technic model; staining and glazing of artificial teeth.

Crown and Bridge 209—Round wire technic. Junior year, r credit.

Lectures and laboratory in the construction of round wire clasps and lugs for partial dentures.

Crown and Bridge 210—Crown and bridge lectures. Senior year. 1 credit.

Lectures and conferences on various types of bridgework.

Crown and Bridge 211—Crown and bridge clinic. Senior year. 7 credits.

Clinical construction of crown and bridgework.

Crown and Bridge 212-Applied occlusal dynamics. Junior year. 1 credit.

Lectures, demonstrations, and technic stressing the relationship of occlusal deformities, both natural and acquired, to oral physiology. Correlation of all factors involved in the corrective and restorative procedures.

DENTAL MATERIALS

Dental Materials 126—Physical properties of dental materials. Sophomore year. 2 credits.

Lectures and laboratory on the physical and chemical properties of the metals and other materials used in dentistry, with clinical applications.

DIAGNOSIS

Diagnosis 212—Dental diagnosis lecture and clinic. Junior year. 4 credits.

Lectures, conferences, and clinical practice in oral examination and charting, history-taking, methods of pulp testing, dental x-ray diagnosis, oro-dental symptomatology, and occlusal disharmonies.

Diagnosis 213—Dental diagnosis clinic. Senior year. 1 credit.

Continuation of clinic of Diagnosis 212.

MEDICINE

Medicine 278—General survey of medicine. Senior year. 5 credits.

Lectures and conferences covering phases of general medicine pertinent to dentistry and clinics for small groups in which the patients are studied for correlation of systemic and dental conditions.

OPERATIVE DENTISTRY

Operative Dentistry 131—Elements of operative dentistry. Sophomore year. 9 credits.

Lectures on the fundamentals of operative dentistry. Technical procedures in the filling of teeth. the study of dental materials, and introduction to clinical practice.

Operative Dentistry 233—Operative clinical practice. Junior year. 11 credits.

Lectures on the application of operative fundamentals to clinical practice. The technic of porcelain inlay construction. Clinical practice and demonstrations.

Operative Dentistry 234—Advanced operative clinical practice. Senior year. 13 credits.

A continuation in lectures and clinic of Operative Dentistry 233 with the consideration of special problems in operative practice, including root canal therapy.

ORAL HYGIENE

Oral Hygiene 122—Oral hygiene lectures. Sophomore year. 2 credits.

Lectures and conferences on scientific findings relating to the causes and prevention of the common diseases and defects of the teeth.

ORTHODONTICS

Orthodontics 241—Principles of orthodontics. Junior year. 5 credits.

Lectures, demonstrations, and laboratory. Orthodontic fundamentals with special emphasis on prevention in orthodontics by the early recognition and correction of the predisposing factors. Laboratory instruction in the fundamental technic of making plain labial and lingual arches, space retainers, and habit breakers.

Orthodontics 243—Orthodontic elective. Senior year. No credit.

Clinical orthodontics. Offered to seniors who are eligible for electives.

PATHOLOGY

Pathology 150—General and special pathology. Sophomore year. 11 credits.

A study of important pathological conditions, demonstrated by museum specimens and a very complete series of histological preparations.

Pathology 246—Oral pathology. Junior year. 4 credits.

Lectures, conferences, and laboratory work on the pathology of the diseases of the jaws, mouth, and teeth.

Pathology 247—Oral pathology seminar. Senior year. No credit. Elective.

Conferences on the clinical application of oral pathology.

PEDODONTICS

Pedodontics 202—Pedodontics, lectures and clinic. Senior year. 4 credits.

Lectures and conferences on operative dental procedures for children, the handling of the child, and the application of present knowledge of preventive dentistry. Clinical work includes history-taking, prophylaxis, and restorative procedures adapted to deciduous and early permanent dentitions.

PERIODONTOLOGY

Periodontology 151—Periodontia clinic. Sophomore year. 1 credit.

Lectures, laboratory, and clinical work on personal dental hygiene, dental prophylactic technic, and simple periodontia.

Periodontology 251—Periodontia clinic. Junior year. 1 credit.

Lectures and clinical work in the diagnosis and treatment of periodontoclasia.

Periodontology 252—Periodontology lectures. Senior year. 2 credits.

Lectures and conferences on the theory and practice of periodontology.

Periodontology 253—Periodontia clinic. Senior year. 1 credit.

Advanced work in the clinical diagnosis and treatment of periodontoclasia.

PHARMACOLOGY

Pharmacology 150—General pharmacology. Sophomore year. 6 trimester credits.

Lectures, conferences, and laboratory. In this course the pharmacological action of drugs on man and lower animals is studied. Short courses in pharmacy and prescription writing are included.

PHYSIOLOGY

Physiology 150—Mammalian physiology. Freshman year. 10 credits. Lectures, conferences, and laboratory.

PROSTHETIC DENTISTRY

Prosthetics 157—Prosthetic lectures and technic. Sophomore year. 10 credits.

Lectures and technical procedures in full and partial denture construction.

Prosthetics 260—Prosthetic lectures. Junior year. 2 credits.

Examination, classification, application of anatomical considerations, and clinical procedure in full and partial denture construction.

Prosthetics 261—Prosthetic clinic. Junior year. 5 credits.

Clinical construction of full and partial dentures.

Prosthetics 263—Prosthetic clinic. Senior year. 6 credits.

Clinical construction of full and partial dentures.

Prosthetics 264—Prosthetic lectures. Senior year. 1 credit.

A series of lectures by outstanding local practitioners in the prosthetic field on clinical considerations in partial denture diagnosis, design, and construction.

Prosthetics 265—Surgical prosthesis. Senior year. 1 credit.

Lecture and technical procedures in maxillofacial and surgical prosthesis.

PSYCHIATRY

Psychiatry 150-Psychopathology. Sophomore year. 1 credit.

Lectures in psychobiology; the growth, instinctive and emotional development of the individual from birth to adulthood; personality traits and patterns; personality factors in physical illness; types of abnormal behavior based on brain pathology, on functional processes or habit disturbances, with clinical demonstrations. Principles of mental hygiene and environment adjustments.

PUBLIC HEALTH

Public Health 222—Principles of public health. Junior year. 2 credits.

Survey course in the theory and practice of preventive medicine, dentistry, and public health. Fundamental principles of administration, statistics, epidemiology, industrial hygiene, and sanitation. The principles and problems of dental public health practice are emphasized.

Public Health 223—Epidemiology and biostatistics. Elective, senior year. Six hours a week for 8 weeks.

A lecture and laboratory course in introductory vital statistics. Offered to seniors who are eligible for electives.

RADIOLOGY

Radiology 165—Oral radiology conference. Sophomore year. 1 credit.

Lectures, readings, and discussions on topics relative to oral radiology.

Radiology 267—Oral radiology practice. Junior year. 1 credit.

Practice in exposing, processing, and mounting dental radiographs.

SURGERY

Surgery 168—Principles of surgery. Sophomore year. 2 credits.

Lectures and conferences on principles of surgery and a consideration of general surgical diseases.

Surgery 270—Oral surgery. Junior year. 2 credits.

Lectures, conferences, demonstrations, and clinical practice on local and general anesthesia and the removal of teeth.

Surgery 272—Oral surgery. Senior year. 4 credits.

Lectures and conferences on oral and maxillofacial surgery and general anesthesia. Clinical practice in the temoval of teeth and in local and general anesthesia. Clinical demonstrations in the diagnosis and operative procedures in the treatment of pathological conditions and injuries about the face, jaws, and oral cavity.

Surgery 274—Oral surgery demonstrations. Senior year. No credit. Elective.

Presentation and demonstrations of oral pathological and maxillofacial lesions.

THEORY AND PRACTICE OF DENTISTRY

Theory and Practice 281—Dental ethics and practice management. Junior year. 1 credit.

Lecture and conference course on dental ethics, economics, office conduct and routine.

Theory and Practice 282—Dental jurisprudence. Junior year. 1 credit.

Lecture and conference course in dental jurisprudence.

Theory and Practice 283—Dental history. Senior year. 1 credit.

Lecture and conference course in dental history.

Theory and Practice 284—Senior thesis.

Each senior is required to present a thesis representing original reading, scientific research, or both, to be completed under the immediate supervision of Professor HOLLIDAY and with the help of an adviser in the field selected, and with the final approval of the Research Committee.

Theory and Practice 285—Comprehensive case. Junior and senior years.

Each student is assigned a case for which he performs all the dental services: taking of X-ray negatives, treatment planning, surgery, and reparative and restorative procedures. The services are carried out in the various clinical divisions, where grades are entered for the student toward the fulfillment of his clinical requirements. The oral examination accompanying the inspection of the completed case aims to correlate the teaching of the entire course.

Theory and Practice 286—Therapeutics. Junior year. 1 credit.

Lectures and conferences on drugs and other therapeutic agents used in dentistry. Formerly *Pharmacology* 250.

TEXTBOOKS

The following list includes most of the books recommended. For the convenience of those who wish to determine their expenses in advance, there are appended the lowest prices at which the books, in cloth binding, can be purchased in New York City. These prices are liable to fluctuation. As a rule, the latest editions only of the textbooks should be purchased. Students are warned against buying any books until specifically advised by the departments concerned.

Anatomy. Gross anatomy. Required: Gray, Anatomy, \$12.00; Rogers, Dissecting Manual, \$.75. Recommended but not required: Cunningham, Manual of Practical Anatomy, \$12.75 a set; Cunningham, Textbook of Anatomy, \$12.00; Piersol, Human Anatomy, \$10.00.

Applied anatomy. Required: Shapiro, Applied Anatomy of the Head and Neck,

\$5.50.

Embryology. Required: Arey, Developmental Anatomy, \$6.75.

Microscopic anatomy. Required: Bailey, Textbook of Histology (11th ed.), \$6.00. Neuroanatomy. Required: Strong and Elwyn, Human Neuroanatomy, \$6.00.

Oral anatomy. Required: Diamond, Dental Anatomy (2d revised ed.), \$4.50.

Oral histology and embryology. Required: Bodecker, Fundamentals of Dental Histology and Embryology (Columbia ed.), \$4.00; Laboratory Manual and Drawing Notebook, Oral Histology and Embryology, \$.75.

- Bacteriology. Required: Jordan and Burrows, Textbook of Bacteriology, \$6.00. Recommended but not required: Gordon, et al, Dental Science and Dental Art, \$9.50; Topley and Wilson, Principles of Bacteriology and Immunity (2d ed.), \$12.00.
- BIOCHEMISTRY. Required: Harrow, Textbook of Biochemistry (3d ed.), \$4.00; Karshan, Laboratory Manual, \$.75. Recommended but not required: Bodansky, Introduction to Physiological Chemistry, \$4.00; Hawk and Bergeim, Practical Physiological Chemistry, \$8.00.
- CROWN AND BRIDGE. Required: Tylman, Crown and Bridge Prosthesis, \$10.00; Hoyt et al, Crown and Bridge Syllabus, \$.75. Recommended but not required: Le Gro, Ceramics in Dentistry, \$7.50; Felcher, Porcelain in Dentistry, \$9.00.
- DENTAL MATERIALS. Required: Physical Properties of Dental Materials, Bureau of Standards Circular C 433, United States Government Printing Office, \$.75. Recommended but not required: Skinner, The Science of Dental Materials (2d ed.), \$4.75.
- Diagnosis. Required: Differential Diagnosis of Mouth Diseases, \$4.00; Handbook of Pulp Symptomatology and Diagnosis, \$1.15. Mimeographed material furnished by the Department.
- MEDICINE. Required: Yater, Fundamentals of Internal Medicine, \$10.00. Suggested but not required: Cecil, Textbook of Medicine, \$9.50; Comroe, Collins, and Crane, Internal Medicine in Dental Practice, \$5.50; Meakins, Practice of Medicine, \$10.00.

OPERATIVE DENTISTRY. Required: Black, Operative Dentistry, Vols. II and III, \$5.50 each. Mimeographed notes are also furnished by the Department.

ORAL HYGIENE. Required: Gordon, Dental Science and Art, \$9.50.

ORTHODONTICS. Recommended for collateral reading: Salzman, Principles of Orthodontics, \$10.00; Strang, Textbook of Orthodontia (2d ed.), \$10.00; Dewey and Anderson, Practical Orthodontics (6th ed.), \$10.00; McCoy, Applied Orthodontia (5th ed.), \$4.50.

PATHOLOGY. Required: W. A. D. Anderson, Synopsis of Pathology, \$6.00.

ORAL PATHOLOGY. Required: Cahn, Pathology of the Oral Cavity, \$5.50.

Pedodontics. Required: McBride, Juvenile Dentistry, \$6.50.

Periodontology. Suggested but not required: Goldman, Periodontia; Hirschfeld, The Toothbrush, \$7.50; Merrit, Periodontal Disease, \$3.75.

Pharmacology Required: Goodman and Gillman, *Pharmacological Basis of Thera*peutics, \$12.50. Recommended but not required: *Accepted Dental Remedies*, \$1.00.

Physiology. Required: Bard, MacLeod, Physiology in Modern Medicine, \$10.00; Laboratory Manual, \$.75.

Prosthetic Dentistry. Required: Anthony, American Textbook of Prosthetic Dentistry, \$11.00; Swenson, Complete Dentures, \$10.00; Young et al, Syllabus, \$1.60. Recommended but not required: Nichols, Prosthetic Dentistry, \$12.50.

PSYCHIATRY. Recommended but not required: Henderson and Gillespie, Textbook on Psychiatry, \$7.00; Hinsie, Visual Outline of Psychiatry, \$2.00; Noyes, Modern Clinical Psychiatry, \$5.00; Solomon and Yakolev, Manual of Military Neuropsychiatry, \$6.00; Strecker, Fundamentals of Psychiatry, \$3.00; Strecker and Ebaugh, Practical Clinical Psychiatry, \$5.00; Weiss and English, Psychosomatic Medicine, \$8.00.

RADIOLOGY. Required: Ennis, Dental Roentgenology (3d ed.), \$6.50.

Surgery. Required: Berger, Principles and Technique of Oral Surgery, \$7.00; Fischer and Reithmuller, Local Anesthesia, \$4.50; Homans, Textbook of Surgery, \$8.00. Recommended but not required: Berger, Principles and Technique of the Removal of Teeth, \$7.50; Flagg, Art of Anesthesia, \$5.00; Parker, Synopsis of Traumatic Injuries of the Face and Jaws, \$4.50; Stout, Human Cancer, \$10.00.

Dictionary. Required: Stedman, Medical Dictionary, \$7.50. Recommended but not required: W. B. Dunning and S. E. Davenport, A Dictionary of Dental Science and Art, \$6.50. Choice of: Dorland, Illustrated Medical Dictionary, \$7.50; Gould, Medical Dictionary, \$7.50.

REGISTER OF STUDENTS

GRADUATES—CLASS OF JUNE 28, 1945

Abelson, Jacob New York City	Jacobs, William Ralph Brooklyn, N. Y.
B.S., College of the City of New York, 1941	A.B., Brooklyn, 1942
Arnold, Herbert New York City	Kaplan, Benjamin New York City
A.B., New York University, 1942	Cornell
Baer, Paul Nathan Kew Gardens, N. Y.	Largey, John Francis New York City
A.B., Brooklyn, 1942	B.S., Niagara, 1942
Bartelstone, Herbert Jerome New York City	Lieberman, Julius New York City
B.S., College of the City of New York, 1942	B.S., College of the City of New York, 1934
Bell, Archie Harry Elizabeth, N. J.	M.S., College of the City of New York, 1940
A.B., Columbia, 1943	Madden, Robert Francis Lake Placid, N. Y.
Benfield, James Winston Hartsdale, N. Y.	Fordham
A.B., Syracuse, 1925	Mandel, Irwin Daniel Brooklyn, N. Y.
Blatman, Daniel Great Neck, N. Y.	B.S., College of the City of New York, 1942
Colby	Menasche, Salvatore Brooklyn, N. Y.
Boscarelli, Ignazio Frank New York City	A.B., Brooklyn, N. Y.
B.S., Manhattan, 1942	Miringoff, Aaron Yale New York City
Brown, William James Brooklyn, N. Y.	B.S., College of the City of New York, 1941
Fordham	Mitchell, Joseph James Brooklyn, N. Y.
Cain, Edward Andrew New York City	B.S., St. John's (N. Y.), 1941
B.S., Fordham, 1942	Mohr, Irving Ward New York City
Cohen, Meyer Elizabeth, N. J.	A.B., New York University, 1942
B.S., Rutgers, 1938	Morelli, Nicholas Francis Catskill, N. Y.
Colaneri, Joseph Nicholas New York City	A.B., Union, 1942
A.B., Columbia, 1941	Oliveri, Gaspar Anthony Brooklyn, N. Y.
Conaty, Arnold Paul Hartsdale, N. Y.	B.S., St. John's (N. Y.), 1942
A.B., Brown, 1945	Ostreicher, Herbert Paul
Daly, William Jerome Brooklyn, N. Y.	Jackson Heights, N. Y.
A.B., Columbia, 1943	A.B., Columbia, 1943
Di Salvo, Nicholas Armand New York City	Sarkady, Lester Samuel Brooklyn, N. Y.
B.S., College of the City of New York, 1942	A.B., New York University, 1942
Durant, Robert Edward New Bedford, Mass.	Shwalb, Richard Abraham Brooklyn, N. Y.
Boston College	A.B., Columbia, 1943
Freeman, Morris New York City	Siegel, Fred Morris Schenectady, N. Y.
A.B., New York University, 1942	Union
Friedman, Marvin New York City	Steinberg, Charles New York City
A.B., New York University, 1942	B.S., College of the City of New York, 1941
M.S., New York University, 1942	Stella, Armand Matthew
Gattegno, Edgar New York City	Monmouth Beach, N. Y.
A.B., New York University, 1942	B.S., Manhattan, 1942
Goodman, Robert New York City	Stern, Leo, Jr. New York City
A.B., New York University, 1942	A.B., Columbia, 1943
Halbrecht, Irving Daniel Somerville, N. J.	Stone, Arnold Flushing, N. Y.
A.B., New York University, 1942	Queens Trusting, 14. 1.
Hogan, John Daniel Highland Falls, N. Y.	
B.S., Notre Dame, 1942	Tolge, Reinhold Bruno Schenectady, N. Y. Union
Horowitz, Mervin Bell New York City	
B.S., College of the City of New York, 1942	Zeh, William George Glendale, N. Y. B.S., Long Island, 1942
101k, 1942	D.G., EGIS ISIAIIG, 1942
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OCTOBER 4, 1945 TO JUNE 8, 1946

FOURTH YEAR-CLASS OF	MARCH, 1946	Chnapko, Victor Peter	New York City
Archer, William Harold A.B., Fordham, 1943	New York City	B.S., Long Island, 1942 Della Rocca, Vincent Paul New York University	New York City
Arden, Howard Anthony B.S., Fordham, 1943	New York City	De Vito, Joseph John A.B., Columbia, 1943	Brooklyn, N. Y.
Ballin, Bert A.B., Oberlin, 1943	New York City	Earnest, Franklin Arthur A.B., New York Universit	New York City
Cali, Vincent B.S., College of the City of	New York City f New York, 1943	Ellison, Solon Arthur B.S., College of the City o	New York City
Campbell, Paul Stine Redlands	Redlands, Calif.	Elvershofen, Walter Columbia	New York City

Fitz-Gibbon, John Hamilton Holyoke, Mass. Providence	Zingeser, Maurice Roy New York Ci A.B., New York University, 1942	ty
Garber, Martin Aaron Providence, R. I. Providence	THURD WHAD CLASS OF WANT TO IT	
Gladue, Wilfred Harold Woonsocket, R. I. B.S., Rhode Island State, 1943	THIRD YEAR—CLASS OF JUNE, 1947 Armao, Thomas Anthony Brooklyn, N. N.	ζ.
Halpert, Wesley New York City B.S., College of the City of New York, 1943	Manhattan Breheny, John Martin New York Cit Fordham	ty
Hamberg, Eric Olov Gavle, Sweden * LDS Stockholm (Sweden), 1929	Darling, Maus Vedder Stamford, Con-	n.
Katz, Lester Edwin New York City New York University	A.B., Johns Hopkins, 1936 Derevlany, Michael John Whitestone, N. Y	۲.
Kotch, Raymond Leonard New York City B.S., College of the City of New York, 1943	A.B., Columbia, 1944 D'Errico, Louis John A.B., Columbia, 1944 Flushing, N. Y	۲.
Kutscher, Austin Harrison New York City New York University	Ferber, Irwin New York Cit	ty
McElroy, Joseph Raymond Brooklyn, N. Y. St. John's University	New York University Field, Jesse Waldron A.B., Gettysbu:g, 1936 New York Cit	ty
Mandel, Louis New York City A.B., New York University, 1943	Fletcher, Roland Anderson Mt. Vernon, N. Y Amherst	۲.
Minervini, George August Yonkers, N. Y. A.B., Columbia, 1942	Yale	.
Morris, Robert Darcy Jackson Heights, N. Y.	Galgano, Frank Joseph New York Cit B.S., Manhattan, 1944	y
A.B., Fordham, 1943 Moss, Melvin Lionel New York City	Golub, Leo Joseph New York Cit A.B., Columbia, 1943	ty
A.B., New York University, 1942 Olinger, Donald Sundell Glen Ridge, N. J.	Halperin, Arnold New York Cit New York University	ty
Pennsylvania Pane, John Thomas New York City	Hayward Donald Edwin, Jr. Brooklyn, N. Y New York University	7.
B.S., Fordham, 1942 Piro, John Donald New York City	Heaphy, Charles Francis Norwalk, Cont Fordham	
Fordham Rechter, Alfred New York City	Heyen, Aloys Diedrich Lynbrook, N. Y Franklin & Marshall	
B.S., College of the City of New York, 1943 Rechter, Elaine Wishengrad New York City	Hoelzer, Robert Frederick Hollis, N. Y. Colgate	
Brooklyn	Hosiosky, Ellen N. New York Cit	y
Illinois Schonberg, Leon New York City	D.M.D., Basle (Switzerland), 1935 Jaxheimer, David Paul Freeport, N. Y	٠.
B.S., College of the City of New York, 1944	Muhlenberg	
Schultz, Wilbert James, Jr. New York City A.B., Hofstra, 1939	Hamilton	•
Schustak, Robert Leslie	Kafka, Betty Brooklyn, N. Y A.B., Brooklyn, 1943	٠.
Rockaway Beach, N. Y. B.S., New York University, 1943	Kelley, Edward Joseph, Jr. Norwalk, Conn	1.
Shapiro, Robert Leonard Springfield, Mass.	Fordham Kovarsky, Leonard Passaic, N. J	١.
Vermont Smith, Roger Frederick Manhasset, N. Y.	Ohio	
A.B., Holy Cross, 1943	New York University Lane, John O'Gorman, Jr. New York Cit	.у
Sommer, Gordon Alexander Spokane, Wash. B.S., Idaho, 1940	Columbia Levin, Alfred W. New York Cit	v
Columbia Medical School Stirling, Martin Theodore Brooklyn, N. Y.	New York University	٠
Stirling, Martin Theodore Brooklyn, N. Y. A.B., Brooklyn, 1943	Levine, Wilfred New York Cit New York University	y
Stone, Melvin Joseph B.S., Tufts, 1943 Dorchester, Mass.	Luboja, Edward Stephen New York Cit Fordham	y
Valinoti, Joseph Robert Brooklyn, N. Y. Fordham	Lucca, John James Brooklyn, N. Y A.B., New York University, 1941	•
Weissman, Bertram New York City	McGann, Donald Michael New York Cit	y
College of the City of New York Winter, Lester Weiss New York City B.S., College of the City of New York, 1929	A.B., St. Peter's (N. J.), 1943 Murray, John Joseph New York Cit Fordham	y
A.M., New York University, 1939	Nicoletti, Leonard John Weehawken, N. J	
Wuthenow, Albert Eugene Jackson Heights, N. Y. Fordham	A.B., Columbia, 1943 Oberman, Philip New York University New York University	y
Zachinsky, Leo New York City A.B., New York University, 1942	Portale, Joseph Sebastian Brooklyn, N. Y Villanova	•
* Student will finish senior year in June, 1946.		

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Rackson, Chester Bert Elmhurst, N. Y. B.S., Queens, 1944	Goldman, Elliot Leonard New York University	New York City
Raebeck, William, Jr. Belle Harbor, N. Y. Colgate	Goldwasser, Joseph Max Brooklyn	Brooklyn, N. Y.
Remnick, Herbert Stanley Paterson, N. J. New York University	Union Halla, Paul Emil	New York City
Rifkin, Irving Los Angeles, Calif. A.B., New York University, 1943	New York University Haufe, Thomas Robert	New York City
Russell, Raymond Homer Ilion, N. Y. Union	Fordham Cornell	
Salem, James Joseph Brooklyn, N. Y. Fordham	Imarisio, John Joseph A.B., New York University	New York City
Santeramo, Eugene Frank Jamaica, N. Y. Queens	Kantorowitz, Leo B.S., Providence, 1944	Providence, R. I.
Scheiner, Herman Isaac New York City New York University	Klein, Harold Jacques A.B., New York University	New York City
Shapiro, Sidney New York City Hofstra	Klickstein, Melvin Massachusetts State	Malden, Mass.
New York University Slagle, Charles Joseph Port Chester, N. Y.	Trinity (Conn.) Korniewicz, John Alexander	Brooklyn, N. Y.
New York University Stuart, Robert Sterling Portland, Maine	St. Francis College (N. Y.) Holy Cross)
A.B., Bowdoin, 1944 Telsey, Daubert Long Island City, N. Y.	Lazoff, Arthur	New York City
Telsey, Daubert Long Island City, N. Y. New York University	B.S., College of the City of Lewis, Robert Mervin	New York, 1944 Newark, N. J.
Thomson, Joseph John Clayton	Rutgers	itewark, it. j.
North Bergen, N. J.	Loeb, Morton Samuel	Jamaica, N. Y.
St. Peter's (N. J.) Walsh, Robert Francis Jamaica, N. Y.	Queens Colgate	
Fordham	Lorber, Mortimer	New York City
SECOND YEAR—CLASS OF JUNE, 1948	New York University	
Arslan, Paul New York City	Maillard, Gene Charles 1	Ridgewood, N. Y.
A.B., New York University, 1943	Fordham New York University	
Auerbach, Gabriel Irving New York City	Mand, Stanley Mervin	Brooklyn, N. Y.
B.S., Massachusetts State, 1941 Auslander, Irwin Howard Brooklyn, N. Y.	New York University	210011/11, 11. 1.
New York University	Marmer, David	New York City
Baurmash, Harold Daniel New York City	A.B., New York University	
New York University Blanco-Dalmau, Luis Rio Piedras, P.R.	Miller, Harold B.S., Long Island, 1939	New York City
Blanco-Dalmau, Luis Rio Piedras, P.R. University of Puerto Rico	M.S., New York University	, 1942
Blugerman, John Mark Brooklyn, N. Y. Columbia	O'Malley, Benedict Bernard A.B., Fordham, 1943	New York City
Cacciola, Frank James Jackson Heights, N. Y. St. John's University	Pino, Rudolph Victor B.S., Fordham, 1943	Brooklyn, N. Y.
Cava, Nicholas Joseph Bethpage, N. Y. Long Island	Prince, Ivin Bittker A.B., New York University	New York City
D'Andrea, Anthony Louis New York City B.S., Manhattan, 1939	Rebhun, Lionel Earl College of the City of New	New York City
Deesen, Kenneth Charles Brooklyn, N. Y.	Robinson, Irwin Schnoll G	reat Neck, N.Y.
Queens Massachusetta Institute of Tarlanda	B.S., College of the City of	
Massachusetts Institute of Technology Delasho, James William B.S., Manhattan, 1943 Yonkers, N. Y.	Scrivani, Steven Silvio Brooklyn	Brooklyn, N. Y.
Disick, Donald Brooklyn, N. Y. Brooklyn	Stein, Joseph Robert College of the City of New	New York City York
Engel, Walter Frederick, Jr. Brooklyn, N. Y. Wesleyan	New York University Cornell University Yale University	
Englander, Harold Robert New York City College of the City of New York	Stern, Eli Sheldon New York University	New York City
Washington Univ. (Mo.) Fenning, Howard Rassler Middletown, N. Y.	Columbia Stern, Peter Edward	New York City
A.B., Lafayette, 1942 Friedman, Jay Wolfe Hempstead, N. Y.	Columbia	pringfield, Mass.
North Carolina Gallagher, Joseph John Brooklyn, N. Y.	Springfield Uccellani, Ennio Louis	New York City
Columbia	Cornell	
Giannattasio, Rudolph Camillo Brooklyn, N. Y.	San Diego State	San Diego, Calif.
A.B., Brooklyn, 1942	Notre Dame	

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FIRST YEAR—CLASS OF JUNE, 1949	Morales, Jorge Enrique Panama City, Panama A.B., National Institute of Panama, 1934
Andreozzi, Armando Edmond Providence, R.1. Brown	D.D.S., Atlanta Southern College, 1940 Rattner, Nathaniel Astoria, N. Y.
Tufts Avery, James Harrison, Jr. Middletown, N. J.	D.D.S., Pennsylvania Varallo, Dominic Vincent Fairlawn, N. J.
A.B., Lincoln Berg, Marc Louis New York City	B.S., Fordham, 1936 D.D.S., Georgetown, 1940
Cornell	
Breuer, Jack M. New York City Columbia	Orthodontics
Burke, Martin Joseph New York City	Cooper, H. Milton Maywood, N. J. D.D.S., Maryland, 1936
Fordham Washington University (Mo.)	Fordham, Walter Harris Scranton, Pa. D.D.S., Pennsylvania, 1945
Maryland Dental School	Grenadier, Isidore Mt. Vernon, N. Y.
Cook, Dana Ellsworth Tarrytown, N. Y. Massachusetts Institute of Technology	B.S., New York University, 1932 D.D.S., New York University, 1935
Colgate Freedman, Leonard Irving Cedarhurst, N. Y.	Howard, Eugene Grant Chicopee, Mass.
Wisconsin	A.B., Harvard, 1941 D.M.D., Tufts, 1945
New York University Gardner, Isaac, Jr. Tampa, Fla.	Ippolito, Nicholas Anthony Glendale, N. Y.
Gardner, Isaac, Jr. Tampa, Fla. A.B., Talladega	D.D.S., Pennsylvania, 1937
A.B., Talladega Harnett, William Watkins Tenafly, N. J.	Khalaf, James William, Jr. Maplewood, N. J. D.D.S., Pennsylvania, 1939
Detroit Hanover	LaFemina, James Joseph Hamden, Conn.
Columbia	D.M.D., Tufts, 1936 McElnea, Howard Stanley East Orange, N. J.
John, Hedda Maria New York City M.D., German University Dental Clinic	B.S., Pittsburgh, 1930
(Prague)	D.D.S., Pittsburgh, 1931 McLaren, Everett Gerard New York City
D.D.S., State Institute for Dental Surgery (Prague)	D.D.S., Pennsylvania, 1942
Karlan, Frances Ross New York City	Messing, Mortimer Brooklyn, N. Y. D.D.S., Columbia, 1941
B.S., Massachusetts Institute of Technology Kurzius, George Brooklyn, N. Y.	Pearlman, Lawrence Brookline, Mass.
New York University	D.M.D., Tufts, 1940
Levin, Alfred Warren New York City George Washington	Radom, Judith G. New York City A.B., New York University, 1941
McAllister, Charles Bruce, Jr. Elmhurst, N. Y.	D.D.S., Temple, 1944 Santamarina, Luis Garcia Havana, Cuba
B.S., Fordham Moriarty, John Joseph Brooklyn, N. Y.	D.D.S., Havana (Cuba), 1945
A.B., Fordham	Swift, James, Jr. Clarendon, Texas
Pobiner, Harvey Brooklyn, N. Y. Brooklyn	D.D.S., Baylor, 1945 Zeisse, Carl Narberth, Pa.
Prata, Raymond Louis New York City B.S., Fordham	D.D.S., Pennsylvania, 1921
Richmond, Julius Kenrick Makepace	SPECIAL STUDENTS
Georgetown, B. G. Queens College (British Guiana)	Caviness, Radcliffe Lewis Dallas, Texas
Columbia	A.B., Duke, 1931
Robinson, Jean Joseph New York City Fordham	D.D.S., Atlanta Southern College, 1941 Chen, Hua China
Wille, Carl Ludwig Stuart Manor, N. Y.	D.D.S., West China Union, 1930 Palm, Gustav Arne Hittarp, Sweden
B.S., Fordham Yanowitz, Bernard N. Malone, N. Y.	L.D.S., Stockholm (Sweden), 1939
St. Lawrence	Yalovitz, Marvin Sigmond Anniston, Alabama D.D.S., Maryland, 1943
POSTGRADUATE STUDENTS	SUMMARY
CANDIDATES FOR THE CERTIFICATE OF	Graduates—June, 28, 1945 45
PROFICIENCY	Fourth Year—March, 1946
Oral Surgery	Third Year—June, 1947
- ·	First Year—June, 1949 21
Bundrant, Theodore Mitchell Monroe, N. Y. D.D.S., Howard, 1929	Candidates for the Certificate of Proficiency. 20 Special postgraduate students
Culhane, M. Carroll Waterbury, Conn. D.M.D., Tufts, 1937	
Z.M.D., 1410, 195/	Total224

CONDENSED ACADEMIC CALENDAR

The complete Academic Calendar for 1946-47 may be obtained from the Secretary of the University.

1946

- March 25 Monday, to March 27, Wednesday. Registration, including payment of fees, for third and fourth year classes.
- March 28 Thursday. New academic year begins for third and fourth year classes. Conferring of degrees.
- April 1 Monday, and April 2, Tuesday. Registration, including payment of fees, for candidates for certificate of training in Orthodontics.
- May 29 Wednesday. Last day of classes for first year class.
- May 30 Thursday, to June 8, Saturday. Final examinations for first year class.
- June 3 Monday, and June 4, Tuesday. Renewal registration, including payment of fees, for candidates for certificate of training in Oral Surgery.
- August 19 Monday, and August 20, Tuesday. Registration, including payment of fees, for candidates for certificate of training in Orthodontics.
- September 9 Monday, to September 11, Wednesday. Registration, including payment of fees, for first and second year classes.
- September 12 Thursday. Classes begin.
- September 16 Monday, to September 18, Wednesday. Registration, including payment of fees, for candidates for certificate of training in Oral Surgery and in General Restorative Dentistry.
- September 30 Monday, and October 1, Tuesday. Registration, including payment of fees, for candidates for certificate of training in Orthodontics. Renewal registration, including payment of fees, for candidates for certificate of training in Oral Surgery.
- October 12 Saturday. Columbus Day. Not a holiday.
- November 5 Tuesday. Election Day. Holiday.
- November 28 Thursday. Thanksgiving Day. Holiday.
- December 5 Thursday, to December 7, Saturday. Renewal registration, including payment of fees, for third and fourth year classes.
- December 23 Monday, to

1947

- January 5 Sunday, Christmas Holidays.
- January 13 Monday, and January 14, Tuesday. Renewal registration, including payment of fees, for candidates for certificate of training in Oral Surgery.
- January 20 Monday, and January 21, Tuesday. Renewal registration, including payment of fees, for candidates for certificate of training in Orthodontics, in Oral Surgery, and in General Restorative Dentistry.
- January 23 Thursday, to January 25, Saturday. Renewal of registration, including payment of fees, for first and second year classes.
- February 12 Wednesday. Alumni Day. Not a holiday.
- February 20 Thursday, and February 21, Friday. Renewal registration, including payment of fees, for candidates for certificate of training in Orthodontics (Class of December 1947).
- February 22 Saturday. Washington's Birthday. Holiday.
- March 30 Sunday, to April 6, Sunday, inclusive. Easter holidays.
- March 31 Monday, and April 1, Tuesday. Registration, including payment of fees, for candidates for certificate of training in Orthodontics.
- April 15 Tuesday. Last day for filing application for degree.

1947

May

19 Monday, to May 20, Tucsday. Renewal registration, including payment of fees, for candidates for certificate of training in Oral Surgery.

May

24 Saturday. Last day of classes for first, second, third and fourth year classes.

24 Saturday, Last day of classes for first, second, time and round

May 26 Monday, to June 7, Saturday. Final examinations.

May 30 Friday. Memorial Day. Holiday. June 3 Tuesday. Conferring of degrees.

July

14 Monday, and July 15, Tuesday. Renewal registration, including payment
of fees, for candidates for certificate of training in Orthodontics (Class of
December, 1947).

August 18 Monday, and August 19, Tuesday. Renewal registration, including payment of fees, for candidates for certificate of training in Orthodontics.

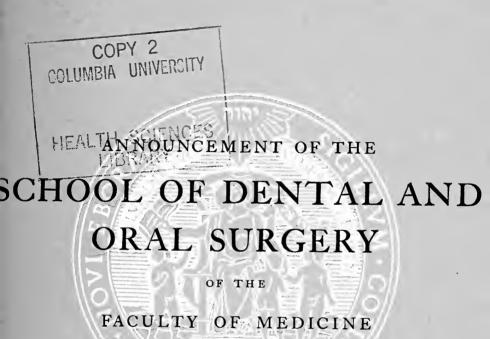
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15	16	17	18	19	20	21	15	1 6	17	18	19	-	21		15		17	18	19	20
22	23	24	25	26	27	28	22	23	24	25	26	27	28	21	22	23	24	25	26	27
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COLUMBIA UNIVERSITY BULLETIN OF INFORMATION

Forty-seventh Series, No. 25

June 14, 1947



1947-1948

COLUMBIA-PRESBYTERIAN MEDICAL CENTER 630 WEST 168TH STREET · NEW YORK 32, N. Y.

Columbia University Bulletin of Information

Forty-seventh Series, No. 25

June 14, 1947

Issued at Columbia University, Morningside Heights, New York 27, N. Y., weekly from December for forty-four consecutive issues. Re-entered as second-class matter September 13, 1946, at the Post Office at New York, N. Y., under the Act of August 24, 1912. Acceptance for mailing at a special rate of postage provided for in Section 1103, Act of October 3, 1917, authorized.

The series includes the Report of the President to the Trustees, and the Announcements of the several Colleges and Schools, relating to the work of the next year. These are made as accurate as possible, but the right is reserved to make changes in detail as circumstances require. The current number of any of these Announcements will be sent upon application to the Secretary of the University.

C. U. P. 12,000-1947.

COMMUNICATIONS

All communications regarding the School of Dental and Oral Surgery, application for admission, and appointments for personal interviews should be addressed to the School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y.; telephone Wadsworth 3-2500.

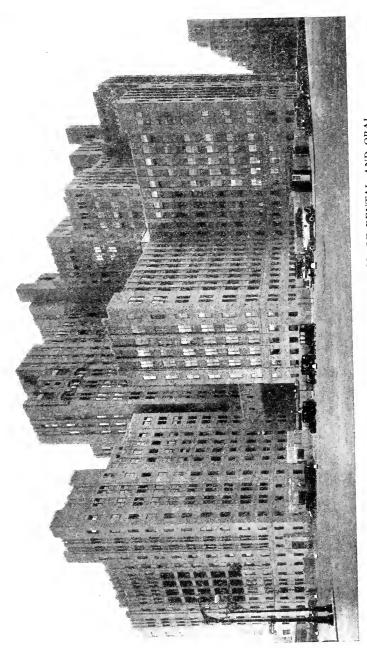
ANNOUNCEMENTS

The Announcements of each College or School, and of the Summer Session may be obtained without charge from the Secretary of the University.

Letters requesting more detailed information than is contained in this Announcement, and all correspondence regarding admission, should be addressed to the Dean, School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y.

PRINTED FOR THE UNIVERSITY BY
COLUMBIA UNIVERSITY PRESS





THE MEDICAL CENTER, INCLUDING THE SCHOOL OF DENTAL AND ORAL SURGERY WING AT THE RIGHT

Columbia University in the City of New York

ANNOUNCEMENT OF THE

SCHOOL OF DENTAL AND ORAL SURGERY

OF THE

FACULTY OF MEDICINE



1947-1948

columbia-presbyterian medical center
630 west 168th street
NEW YORK 32, N.Y.

FORM OF BEQUEST

To the Trustees of Columbia University in the City of New York I give and bequeath the sum of \$....., to be used by said Trustees for the uses and purposes of said Corporation.

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CONDENSED ACADEMIC CALENDAR

1947

September 8 Monday, to September 10, Wednesday. Registration, including payment of fees for 1st, 2nd, 3rd, 4th year classes.

September 11 Thursday. Classes begin.

November 4 Tuesday. Election Day. Holiday.

November 27 Thursday. Thanksgiving Day. Holiday.

November 28 Friday. End of first trimester.

December 1 Monday. Beginning of second trimester.

December 22 Monday, to

1948

January 4 Sunday. Christmas holidays.

February 23 Monday. Holiday.

February 28 Saturday. End of second trimester.

March 1 Monday. Beginning of third trimester.

Last day for filing applications for degrees.

March 21 Sunday, to March 28, Sunday, inclusive. Easter holidays.

May 22 Saturday. Last day of classes.

May 24 Monday, to May 29, Saturday. Final examinations.

May 31 Monday. Memorial Day. Holiday.

June 1 Tuesday. Conferring of degrees.

FACULTY OF MEDICINE

OFFICERS OF THE FACULTY

THE FACULTY

IOHN S. LOCKWOOD

JAMES BURNS AMBERSON, JR. DANA WINSLOW ATCHLEY FRANK B. BERRY HAROLD W. BROWN GEORGE FRANCIS CAHILL A. BENSON CANNON LOUIS CASAMATOR HANS THACHER CLARKE MARGARET ELIZABETH CONRAD WILFRED MONROE COPENHAVER JAMES ALBERT CORSCADEN HOWARD I. CURTIS WILLIAM DARRACH SAMUEL RANDALL DETWILER ALPHONSE RAYMOND DOCHEZ JOHN HUGHES DUNNINGTON BION R. EAST EARL THERON ENGLE JOSEPH E. FLYNN EDMUND P. FOWLER, JR. ALFRED GILMAN ROSS GOLDEN MAGNUS INGSTRUP GREGERSEN FRANKLIN McCue Hanger MICHAEL HEIDELBERGER MAURICE J. HICKEY LELAND E. HINSIE GEORGE H. HUMPHREYS, II CLAUS W. JUNGEBLUT YALE KNEELAND, JR. Nolan Don Carpentier Lewis

ROBERT FREDERICK LOEB DONOVAN JAMES McCune RUSTIN McIntosh H. Houston Merritt EDGAR GRIM MILLER, JR. HARRY STOLL MUSTARD CARL R. OMAN WILLIAM BARCLAY PARSONS TRACY JACKSON PUTNAM WILLARD COLE RAPPLEYE DICKINSON WOODRUFF RICHARDS, JR. HENRY ALSOP RILEY WALTER S. ROOT DAVID SEEGAL AURA EDWARD SEVERINGHAUS LAWRENCE W. SLOAN ALAN DE FOREST SMITH GILBERT P. SMITH HARRY PRATT SMITH PHILIP EDWARD SMITH ISIDOR SNAPPER ARTHUR PURDY STOUT HOWARD C. TAYLOR, JR. JOHN B. TRUSLOW KENNETH B. TURNER HARRY B. VAN DYKE RANDOLPH WEST EDWIN G. ZABRISKIE DANIEL E. ZISKIN

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FRANK H. BOWLES, A.M Director of University Admissions
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WILLIAM H. McCastline, M.D University Medical Officer
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AT SCHOOL OF DENTAL AND ORAL SURGERY

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Marjorie MacBain, A.B	 	Assistant to the Registrar
SEYMOUR ROBB, A.B. in L.S.	 	Medical Librarian

THE SCHOOL OF DENTAL AND ORAL SURGERY

Columbia University was founded in 1754 as King's College by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The Revolutionary War interrupted its active work, but in 1784 it was reopened as Columbia College. In 1912 the title was changed to Columbia University in the City of New York.

From its inception, the program of dental education in Columbia University has been fostered by and associated with the University's School of Medicine. The Faculty of Medicine at its stated meetings of November and December, 1915, recommended to the Trustees that a Dental School be established in the University on "University Lines."

The President of the University in his annual report of 1916 informed the Trustees that "during the year a group of men have come forward with a well-supported proposal that there be established in connection with the Medical School, a school for the training of dental surgeons." The President also reported that "the project was carefully formulated and presented to the Medical Faculty and received the formal approval of that Faculty and later of the Trustees."

In May, 1916, the University issued a pamphlet entitled A Dental School on University Lines. In this pamphlet the University stated its intent to establish a school of dentistry in affiliation and coördination with the School of Medicine. The pamphlet's introductory statement outlined the University's policy for dental education which has been consistently followed:

Dentistry and Dental Education are on the threshold of extraordinary development but are unable to take advantage of their opportunities because of the traditional separation of dentistry and medicine. Dentistry has been shown by recent investigations and research to be logically a branch of general medicine.

In the fall of 1917 Mr. James N. Jarvie gave a substantial sum to a fund "to found and maintain the proposed dental school of the University, described in the pamphlet entitled A Dental School on University Lines issued by Columbia University, May 1916."

In September, 1916, students in dentistry were admitted to courses in Columbia University at the School of Medicine. On March 5, 1917, the Trustees of the University established a school of Dentistry as of September 27, 1916, and from that date the School became an integral part of the University. On March 1, 1920, the dental building adjacent to the School of Medicine and Vanderbilt Clinic was finished and assigned to the use of this school.

On July 1, 1923, the College of Dental and Oral Surgery of New York (organized in 1905) was merged with the School of Dentistry, and the combined institutions named the School of Dental and Oral Surgery of Columbia University. By this merger Columbia acquired two large buildings, at 302-306 East 35th Street and 309-315 East 34th Street, in which the School was housed up to the time of moving into the Medical Center.

The merging of the schools did not alter the University's policy for dental education. In the 1923-1924 Announcement of the School of Dental and Oral Surgery, this policy was reaffirmed by the statement, "It is the purpose of the School of Dental and Oral Surgery to combine in the highest degree practicable a sound knowledge of the fundamentals of medicine with adequate training in the technical procedures of dental science and art."

In September, 1928, the School was moved to the Columbia University-Presbyterian Hospital Medical Center. The dental department of the School occupies the three upper floors of the Vanderbilt Clinic wing, a net floor area of 40,000 square feet. The fundamental science subjects, which are given to both dental and medical students, are taught in the adjoining College of Physicians and Surgeons, the corridors of the two schools being continuous. In adjacent wings, the halls of which are also continuous with those of the School, the wards and out-patient departments of the Presbyterian and associated hospitals are located, thus giving the closest possible contact and association with all branches of health service. The Dental School clinic includes as one of its functions the dental care of the patients of the Medical Center hospitals.

In order to strengthen the instruction of dental and medical students and to fulfill a further step in the integration of dental education and research with the medical program at the Columbia-Presbyterian Medical Center which was visualized when the Dental School was made a part of the Center in 1928, the Faculties of the two schools were merged July 1, 1945. This Faculty is responsible for the educational programs in Medicine, Dental and Oral Surgery, Public Health, Nursing, Graduate and Postgraduate Medical and Dental Education. A Committee on Dental Education, established by University statute, of which a majority shall be from the Department of Dental and Oral Surgery and of which the Associate Dean for Dental and Oral Surgery shall be the chairman, will initiate recommendations to the Faculty on the qualifications and admission requirements for dental students, the curriculum of instruction, the candidates for the degree of Doctor of Dental Surgery, and other educational matters dealing with dentistry.

The course in dentistry covers four academic years leading to the degree of Doctor of Dental Surgery. The greater part of the first two years of the curriculum is taken in the fundamental science departments of instruction in the University which are integral parts of the College of Physicians and Surgeons and the School of Dental and Oral Surgery.

DENTAL AND ORAL SURGERY

REQUIREMENTS FOR ADMISSION, PROMOTION AND GRADUATION

ADMISSION TO FIRST YEAR OF THE SCHOOL OF DENTAL AND ORAL SURGERY

Application. It is desirable that candidates make application during the academic year preceding that in which they seek admission. It is not necessary to complete the academic requirements before making application. However, all requirements must be completed before matriculation. Application blanks will be furnished by the Dean's office of the School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y. Application blanks must be completely filled in and accompanied by an official transcript of the college record.

The minimum requirement for admission to the first-year class is the satisfactory completion of three full years at an acceptable college of arts and sciences, which must include the satisfactory completion of the courses required for the dental student qualifying certificate as mentioned below.

The New York State Board of Regents includes the following subjects in the minimum requirements for the qualifying certificate:

	Semester Hours
English composition and literature	. 6
Physics	. 6
Biology	
Chemistry (including an approved course in organic chemistry)	

A point or semester hour is the equivalent of one hour of lecture or recitation or of two hours of laboratory work per week, per semester. Suitable laboratory work must be included in each of the courses in science.

Inasmuch as an understanding of the biological sciences is based upon the knowledge of the underlying sciences of chemistry, physics, and biology, students are urged, so far as time permits, to take additional courses in quantitative, qualitative, physical, and organic chemistry, physics, comparative anatomy and other advanced courses in biology, as well as courses in mathematics, German and French, sociology, history, and other subjects of general cultural and scientific value. Courses in fine and industrial arts are also of value.

Owing to the limited number of students who can be accommodated, completion of the requirements for entrance does not guarantee admission. The entire pre-dental record of each student is carefully examined by the Committee on Admissions in order that those who are adjudged most capable of meeting the exacting demands of the course and of the profession of dentistry may be selected. Preference will be given in the selection of students to those who present to the Committee on Admissions evidence of high achievement in selected college courses of special

pre-dental value and who, in the opinion of the Committee on Admissions, are most likely to succeed in dentistry, rather than to those who present the largest number of course credits or those who have limited their preparation to the prescribed subjects. Acceptance of a student for admission is based on grounds of character and health, as well as on the fulfillment of academic requirements.

An acceptance fee of \$50 is payable within two weeks after notifica-

tion of acceptance (see page 12).

COMBINED COURSES

Combined Courses with Columbia College. Upon receiving ninety-four points credit, sixty-four of which must be for work in Columbia College, including all the work prescribed for the degree of Bachelor of Arts in Columbia College, a student may take studies in the first year of the School of Dental and Oral Surgery, provided he can satisfy the stated requirements and is accepted for admission therein, and will receive the degree of Bachelor of Arts from Columbia College upon the satisfactory completion of the year's work. No course may be counted toward a professional degree and at the same time be included among those which go to make up the ninety-four points referred to above.

Combined Courses with Barnard College. Students from Barnard College may exercise the professional option after the completion of 90 points of academic work, including all grouped work and a major of 28 points unless this number is reduced in individual cases by special per-

mission of the Committee on Instruction of Barnard College.

Combined Courses in Dentistry and Medicine. It is usually possible for a graduate of a registered medical school with the degree of Doctor of Medicine to meet the requirements of the School and receive the degree of Doctor of Dental Surgery by the satisfactory completion of a special two-year course.

ADMISSION OF FOREIGN STUDENTS

The State Department of Education has special requirements with which students who are not citizens of this country must comply. Any foreign student desiring to apply to the School of Dental and Oral Surgery should communicate with the Dean.

REGISTRATION

Before attending University courses, every student must present himself at the office of the Registrar and file a registration blank giving such information as may be required. The periods set aside for registration in each session are stated in the Academic Calendar at the beginning of this Announcement. Registration at a later date is permitted only on the written permission of the Dean, satisfactory cause for the delay having been shown.

FEES

The University Statutes provide that tuition fees, the University fee, and laboratory deposits are payable semiannually in advance. No reduction is made for late registration. Registration will not be complete until such fees are paid. Checks should be drawn to the order of Columbia University and presented in person or mailed to the office of the Bursar. Payment of fees after the last day of registration (see the Academic Calendar) imposes automatically the statutory charge of \$3.00 for this privilege. Under the regulations, the privileges of the University are not available to any student until he has completed his registration.

The fees to be paid by students are subject to change at any time at

The fees to be paid by students are subject to change at any	time at
the discretion of the Trustees. The following fees are prescribed for dental students:	
· .	
(a) University Fee	010.00
For all students for each session, or for any part thereof	\$10.00
(b) Tuition Fee	
For the course in dentistry for one half an academic year (or equivalent) in the case of a student enrolled for the full course. For students not enrolled for the full course, fees are to be assessed by the Registrar as provided by the University Statutes.	300.00
(c) Fee for Application	
1. For a degree	20.00 10.00
(d) Privileges	
 Late registration or late application for a degree or certificate or for deficiency or special examinations Deficiency or special examinations Renewal of application for any degree or certificate 	3.00
(e) Student Activities (payable annually)	
For all students, Dental Abstracts Journal	2.00
(f) Case Rental	
For sophomores, juniors, and seniors, rental for one instrument case, for each semester	2.50
(g) Rebates	
 The University fee and the fee for application for any degree or certificate shall not be subject to rebate. 	
2. If a student withdraws from the School a partial return of tuition fee may be authorized by the Registrar.	
When a rebate is allowed for the discontinuance of courses or	
withdrawal from the University, such rebate will be reckoned from the day upon which the Registrar receives notice from the student.	
(h) Deposit	25.00
Required of each student to cover material and breakage in the laboratories and clinic. The deposit for breakage includes apparatus to replace broken articles or articles not returned at the	

close of the course; any chemicals not in the kit of chemicals supplied to each student, or additional quantities of chemicals beyond this allowance; and service in washing apparatus or work by a mechanic. Refund of any balance will be made upon the completion of the prescribed course or withdrawal from the School.

Acceptance Fee. Within two weeks after an applicant has been notified that his application has been accepted, he must notify the Dean that he intends to matriculate and accompany his communication with a check or money order for \$50, payable to Columbia University. This acceptance fee will belong to the University and, if he does not register at the School for the specific session, it will not be returned. If he registers at the School at the next enrollment of entering students, the amount of the acceptance fee will be deducted from his tuition fees for that session.

Fees for Repeated Courses. Students obliged to repeat the work for any year are required to pay the full tuition fee.

DENTAL EQUIPMENT

Instruments and Supplies. Each student is required to supply himself with instruments as specified in the official instrument list. The purchase from the University of instruments in original package outfits has been made compulsory, and unauthorized or incomplete equipment will not be accepted by the instructors. All technic material and regular supplies must be purchased from the University upon order from the instructor. The students will not be allowed to purchase more than is required to complete a case. The quantity and quality are selected with a view to the best possible results and conservation of the student's best interests.

Microscopes. All students entering the School of Dental and Oral Surgery are required to provide themselves with microscopes of a satisfactory type. A microscope of standard make fitted with the following attachments will fill the requirements:

Triple nosepiece Abbe condenser

10x and 6x oculars

16 mm. and 4 mm. objectives

Oil immersion lens

The cost of a suitable reconditioned microscope varies from \$60 to \$100, depending on the make and model. The standard price of new microscopes is \$155. (At present microscopes are difficult to obtain at any price.) Each student should also provide himself with a substage lamp.

Lockers. Each student will be assigned a locker on entering and will

be required to use a combination lock as prescribed by the School.

ESTIMATED EXPENSES

Following is an itemized estimate of the average expenses of a fulltime student for an academic year in the School of Dental and Oral Surgery exclusive of travel, clothing, amusements, charity, organizations, and sundries. These items are, of course, variable, but should not be overlooked in estimating the total expense. The tuition, room, board, books, and laundry figures are based upon the rates which prevailed during 1946-1947 and can be accepted as applicable in general for the year 1947-1948 unless national economic changes require their alteration.

									Average	Minimum
Tuition and fees									\$655.00	\$630.00
Room									260.00	190.00
Board									385.00	350.00
Books									80.00	40.00
Instruments (see	belov	v)							300.00	300.00
Laundry										36.00
,									\$1,630.00	\$1,446.00

These estimates are subject to correction as the basic prices of supplies and instruments change. Instruments are to be paid for at the opening of the academic year. The cost of books will vary, depending upon the choice made from the selection offered.

STUDENTS

Each person whose registration has been completed will be considered a student of the University during the session for which he is registered unless his connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the consent of the appropriate Dean or Director.

Students prevented by conscientious scruples from complying with academic requirements which may be fulfilled only upon days set apart by their church for religious observance should make application to the Dean for equitable relief.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University, which is free to cancel his registration at any time on any grounds which it deems advisable. The disciplinary authority of the University is vested in the President in such cases as he deems proper, and, subject to the reserved power of the President, in the Dean of each Faculty and the Director of the work of each Administrative Board.

WITHDRAWAL

An honorable discharge will always be granted to any student in good academic standing, and not subject to discipline, who may desire to with-

draw from the University; but no student under the age of twenty-one years shall be entitled to a discharge without the assent of his parent or guardian furnished in writing to the proper Dean. Students withdrawing must notify the Registrar immediately.

The Dean of the School may, for reasons of weight, grant a leave of

absence to a student in good standing.

REQUIREMENTS FOR PROMOTION

1. A student may be admitted to the second, third, or fourth year of the dental curriculum only upon the recommendation of the class officers of instruction under which he has studied during the preceding year.

2. The School of Dental and Oral Surgery reserves the right to refuse readmission or promotion to any student who is believed for any reason

to be unsuited to the conditions of study in this school.

Students are classified for readmission or promotion under the following headings:

- I. Recommended for advancement
 - a) Unconditionally
 - b) Conditionally
- II. Recommended for readmission to the same class
- III. Recommended neither for advancement nor for readmission to the same class
 - a) Because of failure
 - b) Those who fall under paragraph 2 of rules for advancement of students

GRADING OF STUDENTS

The following grade equivalents are used: A, excellent; B, good; C, fair; F, failure.

REQUIREMENTS FOR GRADUATION

In addition to complying with the requirements for admission and to completing the required work of the curriculum, each candidate for the degree of Doctor of Dental Surgery must present satisfactory evidence as required by law of good moral character and of having attained the age of twenty-one years. If the candidate shall have been admitted to advanced standing, he must have spent not less than four academic years or their equivalent in approved medical or dental colleges in the study of the subjects making up the curriculum of the School of Dental and Oral Surgery.

GRADUATION

Commencement occurs in June, at which time all recipients of degrees awarded during the academic year are expected to attend the exercises

unless excused. Diplomas are issued in June or at various times during the year.

No degree will be granted to a student who has not registered for and attended at the University courses of instruction equivalent to at

least one academic year of full-time work.

An application for a degree or certificate, other than the several doctoral degrees, terminates at the next regular time for the issuance of diplomas subsequent to the date of filing; but under conditions prescribed by the respective Faculties it may be subject to renewal for a fee of \$1.00 each time that a candidate chooses to come up for consideration, within a period not to exceed three years. Thereafter with the filing of a second application the regular fee is again payable—\$20 in the case of a degree and \$10 in the case of a certificate.

Dates for the filing of applications are given in the Academic Calendar

at the beginning of this Announcement.

COURSES FOR DENTAL HYGIENISTS

In September, 1947, the period of training for dental hygienists will be increased from one to two academic years. The requirements for admission are the completion of at least four years of high school work, including certain specified subjects, the attainment of at least eighteen years of age, and the qualifying certificate obtained from the Department of Education of the State of New York. Preference will be shown for applicants who have satisfactorily completed two or more years of college work. The Certificate in Dental Hygiene is granted upon completion of the curriculum.

To be admitted to the Courses for Dental Hygienists which begin on or after September, 1948, the applicant must present at least sixty semester hours of credit (including certain specified courses) from a college or university acceptable to Columbia University. The University has under consideration the possibility of granting a Bachelor of Science degree in Dental Hygiene as well as a Certificate in Dental Hygiene to those students who, having satisfactorily completed sixty semester hours of study (including certain specified courses) in a college or university acceptable to Columbia University, complete the two-year curriculum. For further information address the Dean, School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y.

SHORT COURSES FOR GRADUATES IN DENTISTRY

The School of Dental and Oral Surgery arranges courses in the various divisions of dentistry to meet the needs of groups of practitioners. In 1947-1948 short refresher courses will be offered in various subjects in accordance with demand.

Admission requirements include graduation from an approved dental school and licensure to practice dentistry within the United States or a foreign country. There is no degree or certificate offered for these spe-

cially arranged courses. For further information see the Announcement of Postgraduate Courses for Dentists, which may be obtained from the Dean, School of Dental and Oral Surgery.

CERTIFICATE OF TRAINING

The School of Dental and Oral Surgery is authorized to grant a certificate of training in dentistry or in a special branch of dentistry selected by the candidate and approved by the School of Dental and Oral Surgery to students who have been graduated from an acceptable school of dentistry in the United States or a foreign country.

The course of study for the certificate of training includes not less than forty-eight trimester credits of special work in the clinical branches of dentistry approved by the Dean. At present, an organized fifteen months' course is offered to qualified graduates in dentistry who wish to prepare for specialization in orthodontics. Advanced courses leading to certificates of training are also offered in Oral Surgery, in General Dentistry, and in Periodontology. For further information see the Announcement of Postgraduate Courses for Dentists, which may be obtained from the Dean, School of Dental and Oral Surgery.

GRADUATE COURSES IN THE BASIC SCIENCES

A limited number of fellowships are available to graduates of dental schools acceptable to Columbia University. These fellowships offer opportunity for study in the following basic science departments of the University: Anatomy, Bacteriology, Biochemistry, Pathology, Pharmacology, and Physiology. For further information regarding qualifications and stipend, address the Dean, School of Dental and Oral Surgery.

COURSES LEADING TO THE DEGREE OF DOCTOR OF PHILOSOPHY

Graduation from accredited dental schools under the present curriculum of four academic years preceded by three acceptable predental college years is considered by the Graduate Faculties of Columbia University as meeting the general requirement for admission. There are additional admission requirements in certain departments. A student who is accepted by the Graduate Faculties as a candidate for the degree of Doctor of Philosophy and who holds the Doctor of Dental Surgery degree from Columbia University may, with the consent of the Dean, offer the work done for the professional degree in lieu of thirty points toward the fulfillment of the resident requirement for the degree. For further information see the Announcement of the Faculty of Pure Science, which may be obtained from the Secretary of the University, Columbia University, New York 27, N. Y.

PUBLIC HEALTH FOR DENTISTS

A one-year course leading to a Master of Science degree in public health is offered by the School of Public Health. The course is open to graduate dentists. For information regarding course content, registration, and fees apply to the Director, School of Public Health, 600 West 168th Street, New York 32, N. Y.

NATIONAL BOARD OF DENTAL EXAMINERS

The National Board of Dental Examiners provides an examination in the theory of the science of dentistry. The clinical examination, in every instance, is reserved for the state examining board. A certificate of qualification will be issued to each candidate approved by the National Board when the candidate has been in actual practice for three years after his graduation and has submitted new and satisfactory evidence of his moral and ethical standards of professional conduct. To date the following states have dental laws permitting their licensing authorities to recognize the certificate of qualification of the National Board of Dental Examiners: Alabama, Connecticut, Delaware, Georgia, Indiana, Iowa, Illinois, Kansas, Maine, Minnesota, Nebraska, Oklahoma, Pennsylvania, South Dakota, and Virginia.

Only such undergraduates as may be certified by their respective deans shall be eligible to the National Board examinations. The examinations are held in two separate parts. Part I, which is open to undergraduate candidates who have met the predental requirements and have successfully completed the first two years of work in an approved dental school, consists of a written examination in the following sciences: anatomy, general and dental; bacteriology; physiology; general pathology; histology, general and dental, including embryology; physiological chemistry and metallurgy. Part II, which is open to undergraduate candidates who have passed Part I and have successfully completed the senior year or are eligible for the final examinations of the senior year in an approved dental school, consists of a written examination in each of the following subjects: operative dentistry; materia medica and therapeutics; prosthetic dentistry, including partial and full denture, fixed and removable bridgework, and crown construction; oral and dental surgery; orthodontia; radiology; jurisprudence and ethics; oral pathology; and anesthesia. Usually the examinations are given twice a year, in January and May. Application should be made to GORDON L. TEALL, D.D.S., Secretary of the National Board of Dental Examiners, Hiawatha, Kansas,

LICENSE TO PRACTICE DENTISTRY IN NEW YORK STATE

Those desiring to take the New York State Board examinations are advised to address the Chief of Professional Examinations Bureau, New York State Department of Education, Albany, New York. All applications for admission to the examinations should be completed at least fifteen days before the examinations begin.

The examinations are conducted by the Department, and answer papers are read and marked by the Board, who know the candidate only by

number. The subjects of the licensing examinations are anatomy, chemistry and metallurgy, operative dentistry and radiography, therapeutics and materia medica, physiology and hygiene, oral surgery, pathology and bacteriology, prosthetic dentistry, and histology. The operative and prosthetic subjects are divided into theory and practice. The minimum

standing required in each subject is 75 percent.

The State Department of Education will admit conditionally to the examinations in anatomy, physiology, chemistry and metallurgy, and histology, applicants over nineteen years of age who are of good moral character, who are citizens of the United States or have declared the intention of becoming citizens in accordance with the law, and who are certified as having successfully completed the first two years of the required course in a registered dental school.

PLAN OF INSTRUCTION

The curriculum is arranged with the object of providing the student with the necessary opportunities for acquiring a knowledge of the fundamental sciences in relation to dentistry and the technics of approach in dental problems. Beginning in the first two academic years with a study of the basic sciences, particularly anatomy, biochemistry, bacteriology, pathology, pharmacology, and physiology, the student prepares himself for an understanding of the problems to be encountered in his later clinical work. The third and fourth academic years are devoted to mastering the methods of diagnosis and treatment of patients and acquiring a knowledge of disease patterns and the arts and skills required in preventing, curing, or controlling them.

Throughout the entire course an effort is made to interrelate the different phases of the dental learning by means of "correlative" and "combined" clinics in which the various departments and divisions coöperate in the discussion and demonstration of the same and related problems and thus treat the study of dentistry as a unit rather than a series of isolated branches of learning. At the same time an attempt is made to individualize instruction and to place responsibility as far as practical upon the student for his own training. This is accomplished by means of the division of classes into small sections, conferences, and the comprehensive case method of instruction.

CURRICULUM

Subject		Trimester Credits	Lecture Hours	Lab. or Clinic Hours	Total Hours
FRESHMAN YEAR					
Anatomy					
Embryology		2	20		20
Gross		15	60	262	322
Microscopic		8	38	126	164
Neuro		4	60		60
Oral		6	18	95	113
Biochemistry		4 6 8 2	35	105	140
Histology, Oral			7	61	68
Physiology		10	56	148	204
-					
		55			1,091
SOPHOMORE YEAR					
Bacteriology		7	40	90	130
Crown and Bridge		5	10	110	120
Dental Materials		2	• • •	55	55
Oral Hygiene		2	20		20
Operative Dentistry		9	10	220	230
Pathology		5 2 9 9	40	150	190
Periodontology			• • •	271/2	271/
Pharmacology	• :	6	50	30 ~	80´
Prosthetic Dentistry		10	20	220	240
Psychiatry		1	10		10
Radiology		1	• • •	271/2	271/
Surgery, Oral		2	20		20
		55			1,150

Subject	Trimester Credits	Lecture Hours	Lab. or Clinic Hours	Total Hours
JUNIOR YEAR	_			10
Anatomy, Applied	. 1	10	• • •	10
Bacteriology	. 1	10	• • •	10
Crown and Bridge				/
Applied Occlusal Dynamics	. 1	• • •	271/2	271/2
Clinic	. 2		55	55
Porcelain	. 2	• • •	55	55
Technic	. 4	10	821/2	921/2
Diagnosis	. 4	30	271/2	$57\frac{1}{2}$
Operative Dentistry	. 12	10	3021/2	3121/2
Orthodontics	. 4	20	55	75
Pathology, Oral	. 4	20	55	75
Periodontology	. 1		271/2	$271/_{2}$
Prosthetic Dentistry	. 10	20	220	240
Public Health	. 1	10		10
Radiology	. 1		271/2	271/
Surgery, Oral	. 2	10	271/2	371/
Theory and Practice				
Dental History	. 1	10		10
Therapeutics		10		10
	52			1,1321/2
SENIOR YEAR				
Crown and Bridge	. 7	10	165	175
Diagnosis	. 1		271/2	271/2
Operative Dentistry	. 13	20	3021/2	3221/
Orthodontics	. 1		271/2	$271/_{2}$
Pedodontics	. 4	10	821/2	921/2
Periodontology	. 3	20	271/2	471/
Practice of Medicine	. 5	40	$27i\frac{7}{2}$	671/3
Prosthetic Dentistry		10	1371/2	1471/
Surgical Prosthesis			271/2	$27i/_{2}$
Surgery, Oral	. 5	40	$27i\frac{7}{2}$	$67\frac{7}{2}$
Theory and Practice	-		1,2	/ 2
	. 1	10		10
Ethics Jurisprudence	. ī	10		10
J		_ -		
	48			1,0221/2

COURSES OF INSTRUCTION

For purposes of instruction the work of each academic year is scheduled in three sessions which are designated as First, Second, and Third Trimesters. The unit of credit signifies approximately three academic hours of work a week for one session. For classroom work this means one hour a week in class and an average of two hours of homework. For laboratory or clinical work it represents approximately three academic hours of work a week in the School.

For a detailed statement of the content of each course, the student is referred to the departmental statements which follow. Courses numbered from 100 to 199 are open to candidates for the degree of Doctor of Dental Surgery in the first and second academic years. Courses numbered from 200 upward are open to candidates for the degree of Doctor of Dental Surgery in the third and fourth academic years.

The outline on pages 19 and 20 shows the work required of a candidate for the degree of Doctor of Dental Surgery. The University reserves the right to make such changes in the program of studies at any time as experience may prove desirable.

ANATOMY

Anatomy 101—Oral anatomy. Freshman year. 6 credits.

Lectures, recitations, and laboratory on the growth and development of the jaws and face and the individual teeth, the structural formation of the teeth, the anatomy of the surrounding and related tissues of the oral cavity, and the morphology of the teeth.

Anatomy 115—Oral histology and embryology. Freshman year. 2 credits.

Lectures and laboratory on the microscopic structures of the oral tissues and the application of this knowledge to technical dentistry.

Anatomy 150-Microscopic anatomy. Freshman year. 8 credits.

Lectures, conferences, and laboratory.

This course is the same as Anatomy 101F in the Medical School.

Anatomy 151—Gross anatomy. Freshman year. 15 credits.

Lectures, conferences, and laboratory.

Anatomy 152—Embryology. Freshman year. 2 credits.

Lectures and demonstrations dealing with the dynamics of vertebrate development, with particular reference to mammals and man.

Anatomy 153-Neuroanatomy. Freshman year. 4 credits.

Lectures and demonstrations on the gross anatomy, structure, and functions of the central nervous system. This course is equivalent to Anatomy 106S in the Medical School.

Anatomy 252—Applied anatomy of the head and neck. Junior year. 1 credit.

Lectures and demonstrations. A review course with special application to the problems of the major fields of dentistry.

BACTERIOLOGY

Bacteriology 151—General medical bacteriology and immunology. Sophomore year. 4 credits.

Lectures, conferences, and laboratory.

Bacteriology 152—Principles of bacteriology, epidemiology, infection, immunity, serum diagnosis, and specific therapy. Sophomore year. 3 credits.

This course is identical with *Bacteriology 105F* in the Medical School except that lectures on the mouth bacteria are substituted for several of those of the medical series.

Bacteriology 253—Bacteriology and etiology of dental disease. Third trimester, Junior year. 1 credit.

Lectures. Demonstrations on oral bacteriology and experimental research in problems of dental disease.

BIOCHEMISTRY

Biochemistry 150—Introductory biochemistry. Freshman year. 8 credits.

Lectures and laboratory. A study of the chemistry of life processes with special reference to the animal organism.

DENTAL MATERIALS

Dental Materials 126—Physical properties of dental materials. Sophomore year. 2 credits.

Lectures and laboratory on the physical and chemical properties of the metals and other materials used in dentistry, with clinical applications.

DIAGNOSIS

Diagnosis 212—Dental diagnosis lecture and clinic. Junior year. 4 credits.

Lectures, conferences, and clinical practice in oral examination and charting, history-taking, methods of pulp testing, dental x-ray diagnosis, oro-dental symptomatology, and occlusal disharmonies.

Diagnosis 213—Dental diagnosis clinic. Senior year. 1 credit.

Continuation of clinic of Diagnosis 212.

MEDICINE

Medicine 278—General survey of medicine. Senior year. 5 credits.

Lectures and conferences covering phases of general medicine pertinent to dentistry and clinics for small groups in which the patients are studied for correlation of systemic and dental conditions.

OPERATIVE DENTISTRY

Operative Dentistry 131—Elements of operative dentistry. Sophomore year. 9 credits.

Lectures on the fundamentals of operative dentistry. Technical procedures in the filling of teeth, the study of dental materials, and introduction to clinical practice.

Operative Dentistry 233—Operative clinical practice. Junior year. 12 credits.

Lectures on the application of operative fundamentals to clinical practice. The technic of porcelain inlay construction. Clinical practice and demonstrations.

Operative Dentistry 234—Advanced operative clinical practice. Senior year. 13 credits.

A continuation in lectures and clinic of *Operative Dentistry 233* with the consideration of special problems in operative practice, including root canal therapy.

ORAL HYGIENE

Oral Hygiene 122—Oral hygiene lectures. Sophomore year. 2 credits.

Lectures and conferences on scientific findings relating to the causes and prevention of the common diseases and defects of the teeth.

ORTHODONTICS

Orthodontics 241—Principles of orthodontics. Junior year. 4 credits.

Lectures, demonstrations, and laboratory. Orthodontic fundamentals with special emphasis on prevention in orthodontics by the early recognition and correction of the predisposing factors. Laboratory instruction in the fundamental technic of making plain labial and lingual arches, space retainers, and habit breakers.

Orthodontics 242—Orthodontic clinic. Junior year. No credit.

Clinical orthodontics.

Orthodontics 243—Orthodontic clinic. Senior year. 1 credit.

Orthodontics 242 continued in the Senior year.

PATHOLOGY

Pathology 150—General and special pathology. Sophomore year. 9 credits.

A study of important pathological conditions, demonstrated by museum specimens and a very complete series of histological preparations.

Pathology 246—Oral pathology. Junior year. 4 credits.

Lectures, conferences, and laboratory work on the pathology of the diseases of the jaws, mouth, and teeth.

Pathology 247—Oral pathology seminar. Senior year. No credit. Elective.

Conferences on the clinical application of oral pathology.

PEDODONTICS

Pedodontics 202—Pedodontics, lectures and clinic. Senior year. 4 credits.

Lectures and conferences on operative dental procedures for children, the handling of the child, and the application of present knowledge of preventive dentistry. Clinical work includes history-taking, prophylaxis, and restorative procedures adapted to deciduous and early permanent dentitions.

PERIODONTOLOGY

Periodontology 151—Periodontia clinic. Sophomore year. 1 credit.

Lectures, laboratory, and clinical work on personal dental hygiene, dental prophylactic technic, and simple periodontia.

Periodontology 251—Periodontia clinic. Junior year. 1 credit.

Lectures and clinical work in the diagnosis and treatment of periodontoclasia.

Periodontology 252—Periodontology lectures. Senior year. 2 credits.

Lectures and conferences on the theory and practice of periodontology.

Periodontology 253—Periodontia clinic. Senior year. 1 credit.

Advanced work in the clinical diagnosis and treatment of periodontoclasia.

PHARMACOLOGY

Pharmacology 150—General pharmacology. Sophomore year. 6 trimester credits.

Lectures, conferences, and laboratory. In this course the pharmacological action of drugs on man and lower animals is studied. Short courses in pharmacy and prescription writing are included.

PHYSIOLOGY

Physiology 150—Mammalian physiology. Freshman year. 10 credits. Lectures, conferences, and laboratory.

PROSTHETIC DENTISTRY

Prosthetics 105—Crown and bridge lectures and technic. Sophomore year. 5 credits.

Lectures on the technical procedures in crown and bridgework with practical application, and the construction of bridges and crowns on technic models.

Prosthetics 157—Prosthetic lectures and technic. Sophomore year. 10 credits.

Lectures and technical procedures in full and partial denture construction.

Prosthetics 205—Crown and bridge lectures and technic. Junior year. 4 credits.

Lectures on the technical procedures in crown and bridgework with practical application, and the construction of bridges and crowns on models and extracted teeth.

Prosthetics 206—Crown and bridge clinic. Junior year. 2 credits. Clinical construction of elementary crown and bridgework.

Prosthetics 207—Porcelain technic. Junior year. 2 credits.

Uses of porcelain; construction of porcelain jacket crown on technic model; staining and glazing of artificial teeth.

Prosthetics 209-Round wire technic. Junior year. 1 credit.

Lectures and laboratory in the construction of round wire clasps and lugs for partial dentures.

Prosthetics 210—Crown and bridge lectures. Senior year. 1 credit.

Lectures and conferences on various types of bridgework.

Prosthetics 211—Crown and bridge clinic. Senior year. 6 credits.

Clinical construction of crown and bridgework.

Prosthetics 212-Applied occlusal dynamics. Junior year. 1 credit.

Lectures, demonstrations, and technic stressing the relationship of occlusal deformities, both natural and acquired, to oral physiology. Correlation of all factors involved in the corrective and restorative procedures.

Prosthetics 260—Prosthetic lectures. Junior year. 2 credits.

Examination, classification, application of anatomical considerations, and clinical procedure in full and partial denture construction,

Prosthetics 261—Prosthetic clinic. Junior year. 8 credits.

Clinical construction of full and partial dentures.

Prosthetics 263—Prosthetic clinic. Senior year. 5 credits.

Clinical construction of full and partial dentures.

Prosthetics 264-Prosthetic lectures. Senior year. 1 credit.

A series of lectures by outstanding local practitioners in the prosthetic field on clinical considerations in partial denture diagnosis, design, and construction.

Prosthetics 265—Surgical prosthesis. Senior year. 1 credit.

Lecture and technical procedures in maxillofacial and surgical prosthesis.

PSYCHIATRY

Psychiatry 150-Psychopathology. Sophomore year. 1 credit.

Lectures in psychobiology; the growth, instinctive and emotional development of the individual from birth to adulthood; personality traits and patterns; personality factors in physical illness; types of abnormal behavior based on brain pathology, on functional processes or habit disturbances, with clinical demonstrations. Principles of mental hygiene and environment adjustments.

PUBLIC HEALTH

Public Health 222—Principles of public health. Junior year. 1 credit.

Survey course in the theory and practice of preventive medicine, dentistry, and public health. Fundamental principles of administration, statistics, epidemiology, industrial hygiene, and sanitation. The principles and problems of dental public health practice are emphasized.

Public Health 223—Epidemiology and biostatistics. Elective, senior year. Six hours a week for 8 weeks.

A lecture and laboratory course in introductory vital statistics. Offered to seniors who are eligible for electives.

RADIOLOGY

Radiology 165—Oral radiology conference. Sophomore year. 1 credit.

Lectures, readings, and discussions on topics relative to oral radiology.

Radiology 267-Oral radiology practice. Junior year. 1 credit.

Practice in exposing, processing, and mounting dental radiographs.

SURGERY

Surgery 168-Principles of surgery. Sophomore year. 2 credits.

Lectures and conferences on principles of surgery and a consideration of general surgical diseases.

Surgery 270—Oral surgery. Junior year. 2 credits.

Lectures, conferences, demonstrations, and clinical practice on local and general anesthesia and the removal of teeth.

Surgery 272—Oral surgery. Senior year. 5 credits.

Lectures and conferences on oral and maxillofacial surgery and general anesthesia. Clinical practice in the removal of teeth and in local and general anesthesia. Clinical demonstrations in the diagnosis and operative procedures in the treatment of pathological conditions and injuries about the face, jaws, and oral cavity.

Surgery 274—Oral surgery demonstrations. Senior year. No credit. Elective.

Presentation and demonstrations of oral pathological and maxillofacial lesions.

THEORY AND PRACTICE OF DENTISTRY

Theory and Practice 281—Dental ethics and practice management. Senior year. 1 credit.

Lecture and conference course on dental ethics, economics, office conduct and routine.

Theory and Practice 282—Dental jurisprudence. Senior year. 1 credit.

Lecture and conference course in dental jurisprudence.

Theory and Practice 283—Dental history. Junior year. 1 credit.

Lecture and conference course in dental history.

Theory and Practice 284—Senior thesis.

Each senior is required to present a thesis representing original reading, scientific research, or both, to be completed under the immediate supervision of Professor HOLLIDAY and with the help of an adviser in the field selected, and with the final approval of the Research Committee.

Theory and Practice 285—Comprehensive case. Junior and senior years.

Each student is assigned a case for which he performs all the dental services: taking of x-ray negatives, treatment planning, surgery, and reparative and restorative procedures. The services are carried out in the various clinical divisions, where grades are entered for the student toward the fulfillment of his clinical requirements. The oral examination accompanying the inspection of the completed case aims to correlate the teaching of the entire course.

Theory and Practice 286—Therapeutics. Junior year. 1 credit.

Lectures and conferences on drugs and other therapeutic agents used in dentistry. Formerly Pharmacology 250.

TEXTBOOKS

The following list includes most of the books recommended. For the convenience of those who wish to determine their expenses in advance, there are appended the lowest prices at which the books, in cloth binding, can be purchased in New York City. These prices are liable to fluctuation. As a rule, the latest editions only of the textbooks should be purchased. Students are warned against buying any books until specifically advised by the departments concerned.

Anatomy. Gross anatomy. Required: Stedman, Medical Dictionary, \$7.50; Cunningham, Manual of Practical Anatomy, Vols. II and III, \$8.50; mimeographed Dissecting Directions, \$.35; one of the following three: Cunningham, Textbook of Anatomy, \$12.00; Gray, Anatomy, \$12.00; or Morris, Human Anatomy, \$12.00.

Applied anatomy. Required: Shapiro, Applied Anatomy of the Head and Neck. \$5.50.

Microscopic anatomy. Required: Bailey, Textbook of Histology, \$6.00; mimeographed laboratory manual, \$.35.

Neuroanatomy. Required: Strong and Elwyn, Human Neuroanatomy, \$6.00; mimeographed laboratory manual, \$.60.

Oral anatomy, Required: Diamond, Dental Anatomy, \$4.50.

Oral histology and embryology. Required: Orban, Oral Histology and Embryology, \$6.50.

BACTERIOLOGY. Required: Jordan and Burrows, Textbook of Bacteriology, \$7.00.

BIOCHEMISTRY. Required: Harrow, Textbook of Biochemistry, \$4.50; Karshan, Laboratory Manual, \$1.50.

DENTAL THERAPEUTICS. Required: Accepted Dental Remedies, Council on Dental Therapeutics, American Dental Association, \$1.50.

DIAGNOSIS. Recommended but not required: Differential Diagnosis of Mouth Diseases, \$4.00; Handbook of Pulp Symptomatology and Diagnosis, \$1.15.

MEDICINE. Required: Yater, Fundamentals of Internal Medicine, \$10.00.

OPERATIVE DENTISTRY. Required: Black, Operative Dentistry, Vols. II and III, \$5.50 each.

ORTHODONTICS. Recommended for collateral reading: Salzman, *Principles of Orthodontics*, \$10.00.

Pathology, Required. One of the following four: Boyd, Textbook of Pathology, \$10.00; Karsner, Textbook of Pathology, \$10.00; MacCallum, Textbook of Pathology, \$10.00; Moore, Textbook of Pathology, \$10.00.

ORAL PATHOLOGY. Required: Cahn, Pathology of the Oral Cavity, \$5.50.

PEDODONTICS. Required: McBride, Juvenile Dentistry, \$6.00.

- PHARMACOLOGY. Required: Goodman and Gillman, Pharmacological Basis of Therapeutics, \$12.50; mimeographed laboratory manual, \$.50.
- PROSTHETIC DENTISTRY. Required: Anthony, American Textbook of Prosthetic Dentistry, \$11.00; Swenson, Complete Dentures, \$10.00; Tylman, Crown and Bridge Prosthesis, \$10.00; U. S. Government Printing Office, Physical Properties of Dental Materials, Bureau of Standards Circular C433, \$.75; Young et al, Syllabus, \$3.75.
- PSYCHIATRY. Required: Noyes, Modern Clinical Psychiatry, \$5.00; Gellhorn, Autonomic Regulations, \$5.50.
- RADIOLOGY. Required: Ennis, Dental Roentgenology, \$6.50.
- SURGERY. Required: Berger, Principles and Technique of Oral Surgery, \$7.00; Berger, Principles and Technique of the Removal of Teeth, \$7.50. Recommended but not required: Parker, Synopsis of Traumatic Injuries of the Face and Jaws, \$4.50; Stout, Human Cancer, \$10.00; Homan, Textbook of Surgery, \$8.00.
- DICTIONARY. Recommended but not required: W. B. Dunning and S. E. Davenport, A Dictionary of Dental Science and Art, \$6.50.

STUDENT ORGANIZATIONS

OMICRON KAPPA UPSILON

Epsilon Epsilon chapter of Omicron Kappa Upsilon, national honorary fraternity, was chartered in the School of Dental and Oral Surgery in 1934. The purpose of this organization is to recognize and honor scholarship and, especially, character of outstanding quality in members of the senior class. The leading 12 per cent of the graduating class is eligible for election each year.

THE WILLIAM JARVIE SOCIETY

The William Jarvie Society for Dental Research is a nonsecret, dental honor society, membership in which is based upon scholarship and interest in dental research, and to which sophomores, juniors, and seniors are eligible. The society was organized in the School of Dental and Oral Surgery in 1920 and named after Dr. William Jarvie because of his wide interest in the promotion of dental research. The society aims to promote the spirit of research among the students.

DENTAL ABSTRACTS

The Dental Abstracts Journal is an official publication of the School of Dental and Oral Surgery of the Faculty of Medicine, written and composed by the Dental Abstracts Society, an undergraduate organization, and published by Columbia University Press. This periodical is issued five times yearly and is received by libraries, hospitals, dental, medical, and public health schools, organizations and individuals throughout the world.

With the active guidance and coöperation of the officers of instruction of the school, undergraduate students read and abstract the current dental and related literature for publication in this journal. Undergraduate participation in this program is urged not only to assure continuation of this worthy project but, more important, to acquaint the student intimately with the recent advances in dental science and to gain sound principles toward the proper evaluation of the current literature.

REGISTRATION OF STUDENT ORGANIZATIONS

Blanks for the registration of student organizations, other than those for which the responsibility is assumed by a faculty or department of instruction, may be obtained at the room assignment desk in the office of the Registrar.

Such student organizations come under the jurisdiction of the Committee on Student Organizations of the University Council and may be granted the privileges of (1) the use of names in which the name of the University is embodied or suggested, and (2) the use of University rooms

or grounds for meetings and bulletin boards for announcements, only if they have filed their registration blanks, furnishing the committee with lists of officers and other executive members, statements of purposes, copies of constitutions and bylaws, and the nature of any affiliation or connection with non-University organizations.

FACILITIES

LIBRARY

The library is one of the most vital adjuncts of the School. Second largest medical library in the United States connected with a school of medicine and dentistry, it performs three major functions, namely: provides a sound collection in the historical literature of most branches of medicine; serves students and faculty alike through keeping up with current literature (both texts and journals) and by acquiring unusual and sometimes obscure material; and through a well-developed inter-library loan system, encourages and assists in advanced research.

The library, with seating accommodations for 250 readers, now contains more than 125,000 volumes and about 10,000 pamphlets and occupies a part of three lower floors of the main administration building of the Medical Center. A trained library staff provides specialized services to meet the needs of students, residents, faculty, and research workers of the combined Medical School, Dental School, School of Public Health, School of Nursing, and hospital units.

The periodical room on the upper floor is especially equipped to foster and encourage research work. Here are received over 1,200 current journals, and nearby are shelved files of reviewing, indexing, and abstracting services as well as a selection of the more important journals. All other journals are shelved in the stacks.

University Libraries. The libraries on Morningside Heights are open to all students of dentistry, and books may be borrowed for home use. They include collections on anatomy, biochemistry, public health, nursing, and other subjects related to dentistry and supplement the special collections available in the College of Physicians and Surgeons and in the New York Academy of Medicine, Fifth Avenue at 103d Street. The library of the College of Pharmacy, 115 West 68th Street, is also open to students in the School of Dental and Oral Surgery.

UNIVERSITY PRIVILEGES

All students enrolled in the Dental School enjoy the privileges and facilities of the University campus, including access to the University Libraries, Gymnasium, and other activities.

University Gymnasium. The Gymnasium is situated on Morningside Heights and is open daily, except on Sundays and legal holidays. Students of the School of Dental and Oral Surgery may enjoy its privileges and have the use of the Gymnasium and baths and a private locker.

MEDICAL ATTENDANCE

A medical examination is given to each student annually. Provision has also been made at the Medical Center for examination and advice in cases of minor illnesses and for treatment of emergencies. All entering students are required to have a dental examination in the School and to have all necessary dental work completed prior to graduation.

RELIGIOUS LIFE

The life of the University community finds its religious expression and practice through St. Paul's Chapel and Earl Hall, and the ministry of the Chaplain and those associated with him in his work. The Chaplain of the University is assisted by three Religious Counselors: the Rev. William G. Cole, Counselor to Protestant students; the Rev. John K. Daly, Counselor to Roman Catholic students; and Rabbi Isidor B. Hoffman, Counselor to Jewish students. Daily services are held in the Chapel. A number of student religious organizations are established to which the Chaplain and Counselors serve as advisers and with which students are cordially urged to affiliate themselves.

The Chaplain and the Counselors are especially eager to establish warm personal relations with students and to meet them in consultation, at the Chapel or in their offices in Earl Hall.

KING'S CROWN HOTEL

The King's Crown Hotel, 420 West 116th Street, in close proximity to the University, is owned by the University. It provides accommodations at reasonable rates, available for relatives and guests of members of the University community.

INTERNATIONAL HOUSE

International House, 500 Riverside Drive, at West 124th Street, a privately endowed organization with resident and nonresident facilities for men and women students from all parts of the world, including the United States. Coffee shop and cafeteria service. Address Committee on Admissions, International House, 500 Riverside Drive, New York 27, N. Y.

UNIVERSITY BOOKSTORE

For the convenience of the medical and dental students, the University Bookstore maintains a branch on the second floor of the College of Physicians and Surgeons. In addition to medical and dental textbooks, the store carries a stock of new and used microscopes, laboratory equipment, and student supplies. The textbooks are sold at discounts from the usual prices whenever such discounts are permitted by the publishers. The store is open from 8:30 a. m. to 6 p. m. daily; during the first days of the opening session, until 10 p. m.

A GUIDE TO COLUMBIA UNIVERSITY

A description of the grounds and buildings of the University will be found in A Guide to Columbia University, published by Columbia University Press. The book also contains an account of the University's history and traditions.

FELLOWSHIPS, SCHOLARSHIPS, AND PRIZES

Recipients of University financial aid in excess of tuition, whether in the form of fellowships, scholarships, or other grants, will be asked to reside in the University Residence Halls unless exempted by the appropriate Dean with the approval of the President upon the presentation of

adequate reasons for living elsewhere.

Two Ellis Fellowships are awarded annually to qualified graduates of any of the colleges of recognized rank in the state of Vermont. The holders of these fellowships may pursue resident graduate studies under any one of the graduate schools maintained by the University, and are eligible for reappointment for not more than two additional years, with the proviso that a holder of the fellowship who is a student in medicine may be eligible for reappointment for not to exceed three additional years. The annual stipend is \$1,600. Applications should be submitted on or before March 1 on blanks to be filed with the Secretary of the University.

See also "Graduate Courses in the Basic Sciences" on page 16.

Three scholarships of tuition value in the School of Dental and Oral Surgery are awarded annually. These scholarships are open to students from outside the metropolitan area whose records of scholarship and special fitness for dentistry make them particularly desirable to the School.

The Van Woert Scholarship Fund was established by the alumni of the School of Dental and Oral Surgery in 1940. The award is given annually to a senior student in the dental school who stands high in scholastic attainments, in personal character, in potentiality of being a credit to Columbia University and the dental profession, and who is in need of financial aid.

A prize known as the Ella Maria Ewell Medal is awarded annually to that student of the School of Dental and Oral Surgery who, in the judgment of the Faculty, is most proficient in some subject of dentistry. The branch of dentistry for which the award is made is determined by the executors of the will of Grover C. Beckwith-Ewell.

The Alumni Association makes an annual award of the Rowe-Wiberg Medal to the senior student who has shown the greatest proficiency in prosthetic dentistry.

An annual award is made by the Sigma Epsilon Delta Fraternity to the graduating student who, in the opinion of the Faculty, shows the greatest promise.

An annual prize for excellence in Pedodontics has been established by the Class of 1929.

STUDENT AID

Loan funds are provided in limited amount for the assistance of students. Application for loans should be filed during the month preceding the session for which they are requested.

STUDENT EMPLOYMENT

Owing to the heavy schedule of the Dental School, it is difficult for dental students to undertake outside part-time work during the academic year and, so far as practical, other financial arrangements should be made.

THE ASSOCIATION OF THE ALUMNI OF THE SCHOOL OF DENTAL AND ORAL SURGERY

President, Julius Horn
President-elect, Morris Fierstein
Vice-President, William Giblin
Secretary, Nathaniel Diner
Treasurer, Jack Flynn
Editor, Joel Friedman

Any graduate, former student, officer of instruction, or administrative officer of the School of Dental and Oral Surgery is eligible to membership in the Association of the Alumni of the School of Dental and Oral Surgery of Columbia University.

OFFICERS OF INSTRUCTION

- ¹HAROLD ALEXANDER ABRAMSON . . . Assistant Professor of Physiology A.B., Columbia, 1920; M.D., 1923.
- VIRGINIA APGAR Associate Professor of Anesthesia A.B., Mt. Holyoke, 1929; M.D., Columbia, 1933.
- EDMUND APPLEBAUM Assistant Professor of Dental Anatomy D.D.S., New York College of Dentistry, 1922.
- HENRY ARTHUR BARTELS . . . Assistant Professor of Dental Pathology B.S., Rhode Island State, 1917; B.S., Columbia, 1925; D.D.S., 1927.
- ADOLPH BERGER William Carr Professor of Oral Surgery D.D.S., New York College of Dentistry, 1909.
- FRANK E. BEUBE Assistant Clinical Professor of Dentistry L.D.S., D.D.S., Toronto, 1930.
- SAMUEL BIRENBACH Associate Professor of Dentistry D.D.S., New York College of Dentistry, 1917.
- LESTER RICHARD CAHN Associate Professor of Dental Pathology D.D.S., New York College of Dentistry, 1917.
- HANS THACHER CLARKE Professor of Biochemistry B.Sc., London, 1908; D.Sc., 1914.
- LOUIS ALEXANDER COHN . . . Assistant Clinical Professor of Dentistry D.D.S., Pennsylvania, 1928.
- WILFRED MONROE COPENHAVER. . . . Associate Professor of Anatomy A.B., Western Maryland, 1921; Ph.D., Yale, 1925.
- HOWARD JAMES CURTIS Associate Professor of Physiology B.S., Michigan, 1928; A.M., Swarthmore, 1929; Ph.D., Yale, 1932.
- JOSEPH ANTHONY CUTTITA. Assistant Professor of Dentistry A.B., Fordham, 1932; M.S., 1936; D.D.S., Columbia, 1939.
- Moses Diamond. Associate Professor of Dental Anatomy D.D.S., New York College of Dentistry, 1914.
- ALPHONSE RAYMOND DOCHEZ . John E. Borne Professor of Medical and
 Surgical Research
 A.B., Johns Hopkins, 1903; M.D., 1907; Sc.D., New York University, 1925; Yale, 1926;
- Western Reserve, 1931.

 RION R FAST Associate Dean (Dental and Oral Surgary), Fuscilities
- BION R. EAST . . Associate Dean (Dental and Oral Surgery); Executive Officer, Department of Dental and Oral Surgery; Professor of Dentistry D.D.S., Michigan, 1908.
- ²ADOLPH ELWYN Associate Professor of Neuroanatomy B.S., Columbia, 1915; A.M., 1917.
- JOHN WILLIAM FERTIG Professor of Biostatistics A.B., Ursinus, 1931; Ph.D., Minnesota, 1935.
 - 1 On leave 1947-1948.
 - ² On leave Winter Session.

- JOSEPH E. FLYNN Assistant Professor of Pathology M.D., Iowa, 1938.
- HARRY ALLEN GALTON . . . Assistant Clinical Professor of Dentistry D.D.S., Columbia, 1932.
- ALFRED GELLHORN Associate Professor of Pharmacology M.D., Washington University, 1937.
- ALFRED GILMAN Associate Professor of Pharmacology B.S., Yale, 1928; Ph.D., 1931.
- JOHN E. GORRELL . . . Associate Professor of Hospital Administration B.S., Chicago, 1926; M.B., Northwestern, 1929; M.D., 1980.
- ²Magnus Ingstrup Gregersen Dalton Professor of Physiology A.B., Stanford, 1923; A.M., 1924; Ph.D., Harvard, 1930.
- JOHN M. HENDERSON Professor of Sanitary Science C.E., Cornell, 1927.
- MAURICE J. HICKEY Professor of Oral Surgery D.M.D., Harvard, 1932; M.D., Columbia, 1937.
- ISADOR HIRSCHFELD Associate Professor of Dentistry D.D.S., New York College of Dentistry, 1902.
- HOUGHTON HOLLIDAY Professor of Dentistry A.B., Minnesota, 1915; D.D.S., 1917; D.D.S. (hon.), Montreal, 1945.
- JOSEPH HENRY HOLMES Assistant Professor of Physiology A.B., Amherst, 1980; M.D., Western Reserve, 1934; Med.Sc.D., Columbia, 1941.
- IRVIN LELAND HUNT, JR. Associate Professor of Dentistry D.D.S., Pennsylvania, 1920.
- CLAUS W. JUNGEBLUT. Professor of Bacteriology M.D., Berne, 1921.
- MAXWELL KARSHAN Associate Professor of Biochemistry B.S., College of the City of New York, 1917; A.M., Columbia, 1920; Ph.D., 1925.
- DANIEL M. KOLLEN Assistant Clinical Professor of Dentistry D.D.S., New York University, 1924.
- ¹GEORGE FRANK LINDIG . . . Associate Clinical Professor of Dentistry D.D.S., Minnesota, 1924.
- EWING CLEVELAND McBEATH Professor of Dentistry D.D.S., Minnesota, 1910; B.S., 1919; B.M., 1920; M.D., 1921.
- EDWARD GERALD MURPHY . . Associate Clinical Professor of Dentistry D.D.S., Michigan, 1924.
- HARRY STOLL MUSTARD. . . Associate Dean (Public Health); DeLamar Professor of Public Health Practice; Director, School of Public Health M.D., Medical College of the State of South Carolina, 1911; B.S., College of Charleston, 1914; LL.D., 1938.

¹ On leave 1947-1948.

² On leave Winter Session.

HARRY NEIVERT Assistant Clinical Professor of Otolaryngology M.D., Buffalo, 1913; M.S. (Med.), Pennsylvania, 1944.

JOHN LESTER NICKERSON Associate Professor of Physiology B.A., Dalhousie, 1925; M.A., 1928; Ph.D., Princeton, 1935.

¹Douglas Burnett Parker Associate Professor of Dentistry M.D., Long Island, 1912; D.D.S., Pennsylvania, 1914.

MAX A. PLEASURE Assistant Professor of Dentistry D.D.S., Pennsylvania, 1928; M.S.P.H., Columbia, 194I.

WILLIAM MITCHELL ROGERS Assistant Professor of Anatomy B.S., Georgia, 1921; Ph.D., Cornell, 1927.

WALTER STANTON ROOT Associate Professor of Physiology B.S., Wesleyan, 1924; Ph.D., Pennsylvania, 1930.

THEODOR ROSEBURY Associate Professor of Bacteriology D.D.S., Pennsylvania, 1923.

SOLOMON NATHAN ROSENSTEIN Associate Professor of Dentistry B.S., College of the City of New York, 1929; D.D.S., Columbia, 1930.

HARRY H. SHAPIRO Assistant Professor of Anatomy D.D.M., Tufts, 1918.

WILLIAM H. SILVERSTEIN . . . Assistant Clinical Professor of Dentistry D.D.S., Maryland, 1987.

GILBERT PERCIVAL SMITH Professor of Dentistry D.D.S., Minnesota, 1927.

HARRY PRATT SMITH Delafield Professor of Pathology A.B., California, 1916; M.S., 1918; M.D., 1921.

BARBARA B. STIMSON . Assistant Professor of Clinical Orthopedic Surgery A.B., Vassar, 1919; M.D., Columbia, 1923; Med.Sc.D., 1934.

LEWIS RIDDELL STOWE Professor of Dentistry D.D.S., Minnesota, 1916,

ARTHUR CRANSTON TOTTEN Professor of Dentistry D.D.S., Pennsylvania, 1926.

HARRY BENJAMIN VAN DYKE Hosack Professor of Pharmacology B.S., Chicago, 1918; Ph.D., 1921; M.D., Rush, 1923.

WILLIAM W. WALCOTT Assistant Professor of Physiology A.B., Yale, 1933; Ph.D., Columbia, 1944.

SHIH-CHUN WANG Assistant Professor of Physiology B.S., Yenching, 1931; M.D., Peiping Union Medical College, 1935; Ph.D., Northwestern, 1940.

¹ On leave 1947-1948,

HARRY ALLEN YOUNG Associate D.D.S., Indiana, 1919.	Professor of Dentistry
EDWARD VICTOR ZEGARELLI Assistant A.B., Columbia, 1934; D.D.S., 1937; M.S., Chicago, 1942.	Professor of Dentistry
JANE DORSEY ZIMMERMAN Assistant B.S., Columbia, 1922; A.M., 1923; Ph.D., 1943.	Professor of Speech in Teachers College
DANIEL E. ZISKIN	Professor of Dentistry

¹HOWARD ARDEN, B.S., D.D.S. Assistant in Dentistry . . Lecturer in Public Health Practice DAVID B. AST, D.D.S., M.P.H. HERBERT DELBERT AYERS, JR., A.B., D.D.S. . . . Instructor in Dentistry HERBERT BARTELSTONE, B.S., D.D.S. . . Research Assistant in Dentistry CARLISLE C. BASTIAN, D.D.S. Special Lecturer in Dentistry CLARISSA H. BEATTY, A.M. Instructor in Physiology OSCAR EDWARD BEDER, B.S., D.D.S. Instructor in Dentistry JAMES WINSTON BENFIELD, A.B., D.D.S. . . . Assistant in Dentistry IGNAZIO F. BOSCARELLI, B.S., D.D.S. Assistant in Dentistry STANISLAW H. BRZUSTOWICZ, B.S., D.D.S. . . . Assistant in Dentistry JACK BUDOWSKY, D.D.S. Assistant in Dentistry THEODORE M. BUNDRANT, D.D.S. Assistant in Dentistry EDWARD A. CAIN, B.S., D.D.S. Instructor in Dentistry ADA R. CLARK, B.S., A.M., Ph.D. Associate in Bacteriology JOSEPH N. COLANERI, A.B., D.D.S. Assistant in Dentistry KOURKEN A. DAGLIAN, B.S., D.D.S. Assistant in Dentistry ROBERT CYRIL DEVINE, B.S., D.D.S. Instructor in Dentistry INGRITH JOHNSON DEYRUP, A.B., Ph.D. Instructor in Physiology SOLOMON DISICK, B.S., M.D. Instructor in Pharmacology DAVID A. DRAGIFF, B.S., D.D.S. Research Assistant in Anatomy SAMUEL BERGER DRELLICH, D.D.S. Instructor in Dentistry GUSTAV T. DURRER, D.M.D., D.D.S. Assistant in Dentistry CHARLOTTE FEHLMAN, A.B., A.M., Ph.D. Special Lecturer in Dental Hygiene JACOB FEINMAN, B.S., LL.B., D.D.S. Assistant in Dentistry JOSEPH E. FIASCONARO, B.S., D.D.S. Assistant in Dentistry WALTER H. FORDHAM, D.D.S. Research Assistant in Dentistry MARIO A. FRANZONE, D.D.S. Assistant in Dentistry JACOB S. FRIEDLANDER, D.D.S. Instructor in Dentistry HERBERT PHILIP FRITZ, B.S., D.D.S. Instructor in Dentistry

¹ On leave 1947-1948.

BENJAMIN WILLIAM GLICK, B.S., A.M., M.D Instructor in Anatomy		
ISIDORE HARRY GOLDBERGER, M.D Special Lecturer in Dentistry		
AXEL HANSON Assistant in Dental Technic		
ROBERT EDWARD HERLANDS, A.B., D.D.S Instructor in Dentistry		
JOHN ERIC HILL, A.B., Ph.D Lecturer in Dentistry		
GEORGE HINDELS, D.D.S Instructor in Dentistry		
JAMES JAY, D.D.S Instructor in Dentistry		
HENRY R. JUNEMANN, A.B., D.D.S Instructor in Dentistry		
MORRIS KAVELLE, B.S., D.D.S Instructor in Dentistry		
MARY JANE KELLOGG, R.D.H Assistant in Dental Hygiene		
BERTRAM KLATSKIN, A.B., D.D.S Assistant in Dentistry		
LEONARD E. KOENIG, A.B., D.D.S Assistant in Dentistry		
WILLIAM H. LEAK, D.D.S Gurator of the Museum, Dental and Oral		
Surgery		
JULIUS K. LITTMAN, M.D Instructor in Anatomy		
JOHN J. LUCCA, A.B., D.D.S Research Assistant in Dentistry		
HARRIET G. McCormick, A.M., Ph.D. Special Lecturer in Dental Hygiene		
CLARE K. MADDEN, D.D.S Instructor in Dentistry		
ARTHUR H. MERRITT, D.D.S., M.S., Sc.D Special Lecturer in Dentistry		
HENRY MILCH, A.B., M.D Instructor in Anatomy		
WILLIAM MILLER, B.S., D.D.S Instructor in Dentistry		
WILLIAM JOHN MILLER, A.B., D.D.S Instructor in Dentistry		
SAUL MISHELOFF, D.D.S Instructor in Dentistry		
WALTER HERMAN MOSMANN, D.D.S Special Lecturer in Dentistry		
HENRY L. MUELLER, A.B., B.S. in Ed., A.M Special Lecturer in		
Dental Hygiene		
ALVIN S. NATHAN, D.D.S., B.S. in Ed., A.M Instructor in Dentistry		
FERDINAND G. NEUROHR, D.D.S Special Lecturer in Dentistry		
STANLEY F. NIEF, A.B., D.D.S Assistant in Dentistry		
ARMAND M. OPPENHEIMER, A.B., B.S., D.D.S. Special Lecturer in Dentistry		
HOWARD J. ROGERS Instructor in Dental Technic		
FRED ROTHENBERG, M.D., D.D.S Instructor in Dentistry		
Louis Saporito, D.D.S Instructor in Dentistry		
WILLIAM J. SAVOY, B.S., D.D.S Instructor in Dentistry		
SAUL SCHLUGER, D.D.S Assistant in Dentistry		
BOAZ SHATTAN, A.B., D.D.S Assistant in Dentistry		
HAROLD SHERMAN, B.S., D.D.S Assistant in Dentistry		
HERBERT F. SILVERS, B.S., D.D.S Research Associate in Dentistry		
GEORGE STEIN, M.D., D.M.D Research Associate in Dentistry		
WALTER W. STEVENS, D.D.S Instructor in Dentistry		
Dentistry		

CLINICAL ASSISTANTS

JUNIUS B. AGNELLI, B.S., D.D.S. HAROLD E. BRENNAN, D.D.S. FRANK E. DIXON, A.B., B.S., D.D.S. JOHN J. DOLCE, B.S., D.D.S. HENRY ELLISON,

B.S., D.D.S., M.S.P.H.
LOUIS HAASE, D.D.S.
STANLEY S. HELLER, B.S., D.D.S.
LEONARD HIRSCHFELD, A.B., D.D.S.
HAROLD C. KILPATRICK, D.D.S.
ALEXANDER LEFF, D.D.S.
EDWARD S. LUBOJA, D.D.S.
IRWIN D. MANDEL, B.S., D.D.S.
FRANCIS J. McDONOUGH, D.D.S.

Joseph M. Medaglio, B.S., D.D.S. David Mossberg, D.D.S.
Henry I. Nahoum, A.B., D.D.S.
Wilbur Prezzano, B.S., D.D.S.
Irving D. Raskin, D.D.S.
Nathaniel Rattner, D.D.S.
Julian Schroff, B.S., D.D.S.
Paul C. Sexauer, B.S., D.D.S.
Leo Stern, Jr., A.B., D.D.S.
Irwin Tekulsky, D.D.S.
Vincent D. Varallo, B.S., D.D.S.
Stanley W. Vogel, D.D.S.
Lester W. Winter, B.S., A.M., D.D.S.
David Zeisler, B.S., D.D.S.

PRESBYTERIAN HOSPITAL DENTAL SERVICE

SAMUEL BIRENBACH, Director Attending Dental Surgeons

Adolph Berger Carl R. Oman Attending Dental Surgeons
GILBERT P. SMITH DANIEL E. ZISKIN
LEWIS R. STOWE

Associate Attending Dental Surgeons

LESTER R. CAHN

SOLOMON N. ROSENSTEIN

Joseph Schroff

Assistant Attending Dental Surgeons

OSCAR E. BEDER FRANK E. BEUBE Edward A. Cain William J. Savoy Edward V. Zegarelli

ALBIN R. SEIDEL, Consultant

PRESBYTERIAN HOSPITAL ORAL SURGERY SERVICE

MAURICE J. HICKEY, D.M.D., M.D., Assistant Attending Surgeon

REGISTER OF STUDENTS

GRADUATES-CLASS OF MARCH 28, 1946

New York City

Archer, William Harold A.B., Fordham, 1943 Arden, Howard Anthony New York City B.S., Fordham, 1943 Ballin, Bert New York City A.B., Oberlin, 1943 Cali, Vincent New York City B.S., College of the City of New York, 1943 Campbell, Paul Stine Redlands. Calif. Redlands Chnapko, Victor Peter New York City B.S., Long Island, 1942 Della Rocca, Vincent Paul New York University New York City De Vito, Joseph John Brooklyn, N. Y. A.B., Columbia, 1943 Earnest, Franklin Arthur New York City A.B., New York University, 1943 Ellison, Solon Arthur New York City B.S., College of the City of New York, 1942 Elvers, Walter Barton New York City A.B., Columbia, 1946 Fitz-Gibbon, John Hamilton Holyoke, Mass. Providence Garber, Martin Aaron Providence, R. I. Providence Gladue, Wilfred Harold Woonsocket, R. I. B.S., Rhode Island State, 1943 Halpert, Wesley New York City B.S., College of the City of New York, 1943 Gavle, Sweden *Hamberg, Eric Olov L.D.S., Stockholm (Sweden), 1929 Katz, Lester Edwin New York City New York University Kotch, Raymond Leonard New York City B.S., College of the City of New York, 1943 Kutscher, Austin Harrison New York City A.B., New York University, 1945 McElroy, Joseph Raymond Brooklyn, N. Y. St. John's University Mandel, Louis New York City A.B., New York University, 1943 Minervini, George August Yonkers, N. Y. A.B., Columbia, 1942 Morris, Robert Darcy Jackson Heights, N. Y. A.B., Fordham, 1943

Moss, Melvin Lionel New York City A.B., New York University, 1942 Olinger, Donald Sundell Glen Ridge, N. J. Pennsylvania

Pane, John Thomas New York City

B.S., Fordham, 1942

Piro, John Donald New York City Fordham

Rechter, Alfred New York City B.S., College of the City of New York, 1943

Rechter, Elaine Wishengrad New York City Brooklyn Illinois

Schonberg, Leon New York City B.S., College of the City of New York, 1944

Schultz, Wilbert James, Jr. New York City A.B., Hofstra, 1939

Schustak, Robert Leslie

Rockaway Beach, N. Y. B.S., New York University, 1943

Shapiro, Robert Leonard Springfield, Mass. Vermont

Smith, Roger Frederick Manhasset, N. Y. A.B., Holy Cross, 1943

Sommer, Gordon Alexander Spokane, Wash. B.S., Idaho, 1940 Columbia Medical School

Stirling, Martin Theodore Brooklyn, N. Y. A.B., Brooklyn, 1943

Stone, Melvin Joseph Dorchester, Mass. B.S., Tufts, 1943

Valinoti, Joseph Robert Brooklyn, N. Y. Fordham

Weissman, Bertram New York City College of the City of New York

Winter, Lester Weiss New York City B.S., College of the City of New York, 1929

A.M., New York University, 1939

Wuthenow, Albert Eugene

Jackson Heights, N. Y.

Fordham Zachinsky, Leo New York City A.B., New York University, 1942 Zingeser, Maurice Roy New York City A.B., New York University, 1942

SEPTEMBER 12, 1946 TO JUNE 3, 1947

Armao, Thomas Anthony Brooklyn, N. Y. Manhattan Breheny, John Martin New York City Fordham Darling, Maus Vedder

FOURTH YEAR-CLASS OF JUNE, 1947

Stamford, Conn. A.B., Johns Hopkins, 1936

* June 4, 1946.

D'Errico, Louis John Flushing, N. Y. A.B., Columbia, 1944 Ferber, Irwin New York City New York University Ferm, Wilhelm Bror Skoghall, Sweden L.D.S., Institute of Dentistry (Stockholm), 1939 Realskolan, Skara (Sweden)

Field, Jesse Waldron New York City New York City Shapiro, Sidney A.B., Gettysburg, 1936 Hofstra New York University Fletcher, Roland Anderson Mt. Vernon, N. Y. Slagle, Charles Joseph Port Chester, N. Y. New York University Amherst Stuart, Robert Sterling Yale Portland, Maine Galgano, Frank Joseph New York City A.B., Bowdoin, 1944 B.S., Manhattan, 1944 Long Island City, N. Y. Telsey, Daubert Golub, Leo Joseph New York City New York University A.B., Columbia, 1943 Thomson, Joseph John Clayton New York City Halperin, Arnold North Bergen, N. J. New York University St. Peter's (N. J.) Hayward, Donald Edwin, Jr. Walsh, Robert Francis Jamaica, N. Y. Brooklyn, N. Y. Fordham New York University Norwalk, Conn. Heaphy, Charles Francis THIRD YEAR-CLASS OF JUNE, 1948 Ford/1am Heyen, Aloys Diedrich Lynbrook, N. Y. Arslan, Paul New York City Franklin and Marshall A.B., New York University, 1943 Hoelzer, Robert Frederick Hollis, N. Y. Auerbach, Gabriel Irving New York City A.B., Colgate, 1946 B.S., Massachusetts State, 1941 Hosiosky, Ellen N. New Yo D.M.D., Basle (Switzerland), 1935 New York City Auslander, Irwin Howard Brooklyn, N. Y. New York University Jaxheimer, David Paul Freeport, N. Y Baurmash, Harold Daniel New York City Muhlenberg New York University Jurka, Charles Edward Chappaqua, N. Y. Rio Piedras, P.R. Blanco-Dalmau, Luis Hamilton University of Puerto Rico Brooklyn, N. Y. Kafka, Betty A.B., Brooklyn, 1943 Blugerman, John Mark Brooklyn, N. Y. Kelley, Edward Joseph, Jr. Norwalk, Conn. A.B., Columbia, 1944 Cacciola, Frank James Fordham Passaic, N. J. Jackson Heights, N. Y. Kovarsky, Leonard St. John's University Ohio Cava, Nicholas Joseph Bethpage, N. Y. New York University Lane, John O'Gorman, Jr. New York City Long Island Columbia Deesen, Kenneth Charles Brooklyn, N. Y. New York City Levin, Alfred W. Queens New York University Massachusetts Institute of Technology Levine, Wilfred New York University New York City Delasho, James William Yonkers, N. Y. B.S., Manhattan, 1943 Luboja Edward Stephen New York City Derevlany, Michael John Whitestone, N. Y. Fordham A.B., Columbia, 1944. Lucca, John James Brooklyn, N. Y. Disick. Donald Brooklyn, N. Y. A.B., New York University, 1941 Brooklyn Murray, John Joseph New York City Engel, Walter Frederick, Jr. Fordham Brooklyn, N. Y. Weehawken, N. J. Nicoletti, Leonard John Wesleyan A.B., Columbia, 1943 Englander, Harold Robert New York City Oberman, Philip New York City College of the City of New York New York University Washington Univ. (Mo.) Portale, Joseph Sebastian Brooklyn, N. Y. Fenning, Howard Rassler Villanova Middletown, N. Y. Elmhurst, N. Y. Rackson, Chester Bert A.B., Lafayette, 1942 B.S., Queens, 1944 Friedman, Jay Wolfe Hemstead, N. Y. Raebeck, William, Jr. Belle Harbor, N. Y. North Carolina Colgate Remnick, Herbert Stanley Paterson, N. J. Goldwasser, Joseph Max Brooklyn, N. Y. Brooklyn B.S., New York University, 1944 Union Rifkin, Irving Los Angeles, Calif. Halla, Paul Emil New York City A.B., New York University, 1943 New York University Russell, Raymond Homer Ilion, N. Y. Haufe, Thomas Robert New York City Union Fordham Salem, James Joseph Brooklyn, N. Y. Cornell Fordham Imarisio, John Joseph New York City Santeramo, Eugene Frank Jamaica, N. Y. A.B., New York University, 1944 Queens Kantorowitz, Leo Providence, R. I. Scheiner, Herman Isaac New York City New York University B.S., Providence, 1944

Klein, Harold Jacques New York City New York City Breuer, Jack M. A.B., New York University, 1943 Columbia Klickstein, Melvin Malden, Mass. Cook, Dana Ellsworth Tarrytown, N. Y. Massachusetts State Massachusetts Institute of Technology Trinity (Conn.) Korniewicz, John Alexander Freedman, Leonard Irving Brooklyn, N. Y. Cedarhurst, N. Y. St. Francis College (N. Y.) Wisconsin New York University Holy Cross Lazoff, Arthur New York City Harnett, William Watkins Tenafly, N. J. B.S., College of the City of New York, Detroit 1944 Hanover Lewis, Robert Mervin Newark, N. J. Columbia John, Hedda Maria Rutgers New York City Loeb, Morton Samuel Jamaica, N. Y. M.D., Prague, 1925 Queens D.D.S., State Institute for Dental Surgery Colgate (Prague), 1933 Lorber, Mortimer New York City Karlan, Frances Ross New York City New York University B.S., Massachusetts Institute of McGann, Donald Michael New York City Technology A.B., St. Peter's (N. J.), 1943 Kurzius, George Brooklyn, N. Y. Maillard, Gene Charles Ridgewood, N. Y. A.B., New York University, 1941 Fordham Levin, Alex Elihu New York City New York University George Washington McAllister, Charles Bruce, Jr. Mand, Stanley Mervin Brooklyn, N. Y. New York University Elmhurst, N. Y. Marmer, David New York City B.S., Fordham A.B., New York University, 1944 Pobiner, Harvey Brooklyn, N. Y. Miller, Harold Brooklyn New York City B.S., Long Island, 1939 Prata, Raymond Louis New York City M.S., New York University, 1942 B.S., Fordham Pino, Rudolph Victor Brooklyn, N. Y. Richmond, Julius Kenrick Makepeace B.S., Fordham, 1943 Georgetown, B. G. Prince, Ivin Bittker New York City Queens College (British Guiana) A.B., New York University, 1943 Columbia Rasi, Howard Blades Brooklyn, N. Y. Yanowitz, Bernard N. Malone, N Y A.B., Cornell, 1939 St. Lawrence M.D., New York Medical College, 1943 Rebhun, Lionel Earl New York City FIRST YEAR-CLASS OF JUNE, 1950 College of the City of New York Barlow, Carl Morton New York City Robinson, Irwin Schnoll Great Neck, N. Y. A.B., New York University, 1946 B.S., College of the City of New York, Buslovitz, Louis New Haven, Conn. 1944 A.B., Yale, 1938 Scrivani, Steven Silvio Brooklyn, N. Y. Citron, Hyman Allan New York City Brooklyn B.S., College of the City of New York, Stein, Joseph Robert New York City 1946 College of the City of New York New York University Dowling, James Glenville Fairfield, Conn. Cornell University Fordham Yale University St. Lawrence University Stern, Eli Sheldon New York City Fitz-Gibbon, Francis John Holyoke, Mass. New York University Providence College Columbia Furgang, Murray Pelham Manor, N. Y. Stern, Peter Edward New York City College of the City of New York Columbia St. John's (N. Y.) University Uccellani, Ennio Louis New York City Fordham Cornell New York University Zinn, Arthur, Jr. San Diego, Calif. Harris, Stanford New York City San Diego State College of the City of New York Notre Dame Gonzaga University University of Washington SECOND YEAR-CLASS OF JUNE, 1949 Henrich, Edwin John New Rochelle, N. Y. Andreozzi, Armando Edmond New York University Providence, R. I. Buffalo Brown Cornell Tufts Hurley, William Charles Lake Placid, N. Y.

New York City

Notre Dame

Yale

Berg, Marc Louis

Cornell

Jacklyn, Herbert Barre New York City College of the City of New York Jenkins, Cornelius Willis New York City A.B., Lincoln, 1946 Jussim, Julius New York City B.S., College of the City of New York, 1938 Ohio State University Lenrow, Maynard Wesley Westport, Conn. Westminster (Pa.) College Bethany (W. Va.) Levine, Charles Lester New York City College of the City of New York Wisconsin Ohio University Michigan Loeffler, George Henry Jamaica, N. Y. Manhattan College McManus, Philip Patrick, Jr. New York City A.B., Illinois, 1942 New York University Menken, George Jackson Heights, N. Y. Cornell Queens College Nebel, Arthur John, Jr. Elizabeth, N. J. Centre College Columbia O'Loughlin, John Joseph Howard Beach, N. Y. B.S., Fordham, 1946 Holy Cross Notre Dame Pomerantz, Alan Saul Brooklyn, N. Y. A.B., Brown, 1946 Brooklyn Russo, Michael Archangel Elizabeth, N. J. B.S., Fordham, 1942 Flushing, N. Y. Savad, Sol A.B., Brooklyn, 1939 Schwartz, Stanley Irving Poughkeepsie, N. Y. A. B., Bard, 1945 Shapiro, Morton Louis Brooklyn, N. Y. Willamette University Sherr, Leonard Allen New York City College of the City of New York Wisconsin Tansky, Joseph Brooklyn, N. Y. Brooklyn Tiernan, Vincent Clifford New York City B.S., Manhattan College, 1942 Vairo, George Gerard New York City B.S., Fordham, 1942 Vogel, Howard Bernard New York City College of the City of New York Bates College Rochester Wannen, John Richard Brooklyn, N. Y. Boston Middlebury Tufts Wiener, Jack Joseph Brooklyn, N. Y. Brooklyn Wille, Carl Ludwig Stuart Manor, N. Y. B.S., Fordham, 1936

POSTGRADUATE STUDENTS
CANDIDATES FOR THE CERTIFICATE IN
TRAINING

General Restorative Dentistry

Bresee, Donald Berne Longmont, Colo. D.D.S., Southern California, 1943 Daniel, Kenneth Jay New York City

D.D.S., Creighton, 1931

Gaines, Maxwell Livingston New Rochelle, N. Y.

D.D.S., Howard, 1933 Hymans, Vivian Louis

Amsterdam, Holland University of Utrecht, Holland

Levin, Philip Arthur Philadelphia, Pa. D.D.S., Temple, 1943 A.B., Yale, 1940

Rubin, Norman Jack D.D.S., Emory, 1935

Newark, N. J.

Oral Surgery

Culhane, Maurice Carroll Waterbury, Conn. D.M.D., Tufts, 1937 Rattner, Nathaniel Astoria, N. Y.

Rattner, Nathaniel As D.D.S., Pennsylvania, 1941

Rutherford, Joseph Herbert

Stamford, Texas

D.D.S., Baylor, 1939 Slavin, Mortimer Irvin

Slavin, Mortimer Irvin
D.D.S., Pennsylvania, 1939

Kingston, Pa.

Varallo, Dominic Vincent
East Paterson, N. J.

B.S., Fordham, 1936

D.D.S., Georgetown, 1940

Wu Ting-Chun Nanking, China D.D.S., West China Union (China), 1941

Orthodontics

Bauman, Irwin Paul Washington, D. C. D.D.S., Georgetown, 1939
B.S., George Washington University, 1935
Block, Alfred Utica, N. Y.

A.B., Michigan, 1934 D.D.S., Illinois, 1939

Chen Hua Nanking, China D.D.S., West China Union (China), 1930 Corn, Arthur M. Jamaica, N. Y.

A.B., New York University, 1935 D.D.S., New York University, 1939

de Villiers, John Frederick

Johannesburg, South Africa L.D.S., Guy's Hospital Dental School (England), 1937

Goldhush, Alvin Archie Brooklyn, N. Y. D.D.S., Pennsylvania, 1941

M.S., Pennsylvania, 1942 Granerus, Ragnar Henning Emil

Nassjo, Sweden L.D.S., Swedish Dental Institute (Sweden), 1933

Handler, Allan A. New York City B.S., New York University, 1933 D.D.S., Columbia, 1937

Herman, Alan Horace South Orange, N. J. D.D.S., Maryland, 1942

Hsia Yao-Shan Hupeh, China D.D.S., West China Union (China), 1936 (ppolito, Nicholas Anthony Glendale, N. Y. D.D.S., Pennsylvania, 1937 Katzman, Irving Rochester, N. Y. B.S., College of the City of New York,	Tanz, Norman P. New York City B.S., College of the City of New York D.D.S., Columbia, 1942 Tessier, Francis Joseph B.S., Niagara, 1936 D.D.S., Buffalo, 1941
1937 D.D.S., Michigan, 1941 Labas, Charles Frank Watertown, Conn. D.D.S., Maryland, 1939	Walley, Kenneth Morgan McMasterville, Canada D.D.S., McGill University (Canada), 1941
LaFemina, James Joseph Hampden, Conn.	SPECIAL STUDENTS
D.M.D., Tufts, 1936 Luban, Joseph B.S., College of the City of New York D.D.S., Columbia, 1942 McLinn, Harry Marvin Pittsburgh, Pa.	Di Salvo, Nicholas Armand New York City B.S., College of the City of New York, 1942 D.D.S., Columbia, 1945
D.D.S., Howard, 1944	Perahia, Jacques Tel Aviv, Palestine
Messing, Mortimer Brooklyn, N. Y. D.D.S., Columbia, 1941	D.D.S., French Faculty of Medicine (Beyrouth, Lebanon), 1941
Pasternak, Richard Brooklyn, N. Y. A.B., Johns Hopkins, 1938 D.D.S., Columbia, 1942	Shpuntoff, Harry New York City B.S., College of the City of New York, 1989
Russ, Curtis Royal Jackson, Miss. D.D.S., Atlanta-Southern College, 1930 Schoeneman, Bertram B.	D.D.S., Columbia, 1943 Smith, David Joseph Brooklyn, N. Y. D.D.S., Columbia, 1944
Staten Island, N. Y.	D.D.Di, Columbia, 1011
A.B., Alabama, 1935 D.D.S., Columbia, 1939	SUMMARY
Spengeman, Walter Gerard New York City A.B., Columbia, 1938 D.D.S., Columbia, 1941	Fourth Year—June, 1947
Stazeski, Theodore Joseph Hawthorne, N. J.	First Year—June, 1950
D.D.S., Temple, 1941 Sturtevant, Robert C. Jamaica, N. Y. D.D.S., Washington University (Mo.),	Special Postgraduate Students 4
1939	Total177

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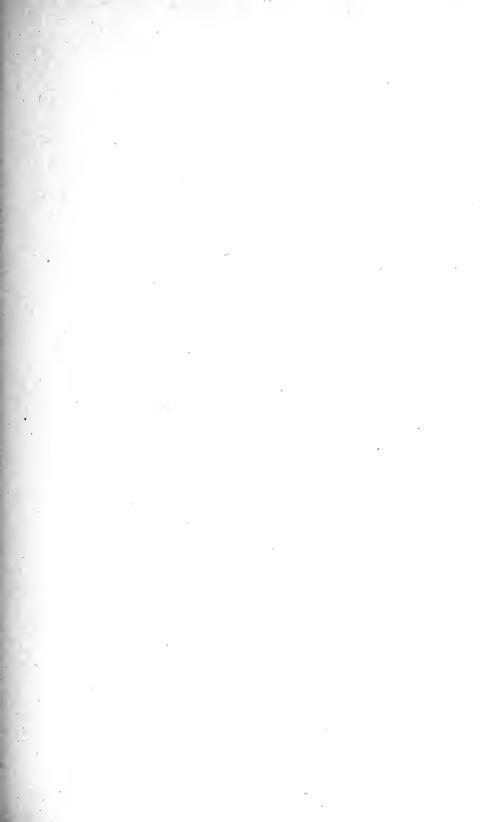
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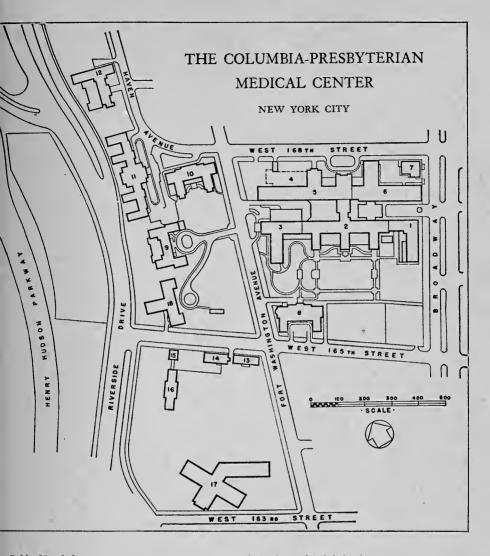
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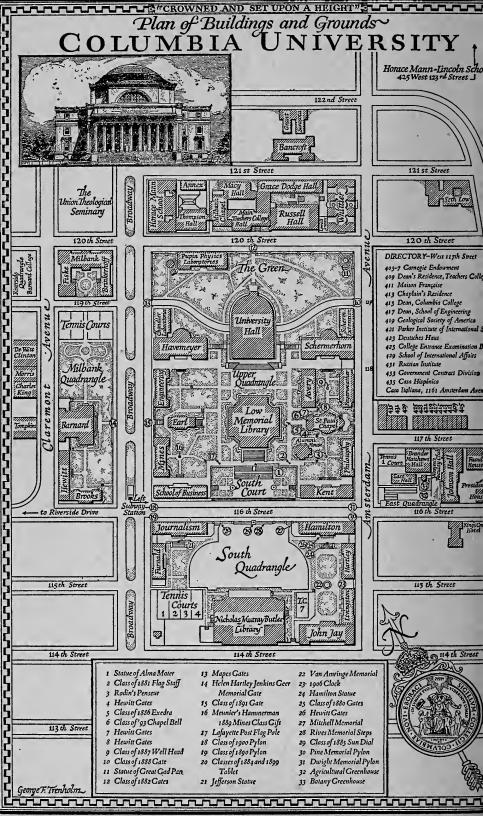






- . Babies Hospital
- . Presbyterian Hospital
 - Sloane Hospital
- . Harkness Pavilion
- 4. Power plant
- 5. College of Physicians and Surgeons
- 5. Vanderbilt Clinic
 - School of Dental and Oral Surgery
- 7. Washington Heights Health and Teaching Center, N. Y. City Dept. of Health
 - School of Public Health

- 8. Institute of Ophthalmology
- 9. Maxwell Hall
- 10. Neurological Institute
- 11. N. Y. State Psychiatric Institute and Hospital
- 12. Bard Hall
- 13, 16. Storage
- 14. Shops
- 15. Housing
- 17. Florence Nightingale Hospital (under construction), N. Y. City Dept. of Hospitals
- 18. Edward S. Harkness Memorial Hall



COLUMBIA UNIVERSITY BULLETIN OF INFORMATION

Forty-eighth Series, No. 31

July 24, 1948

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COLUMBIA UNIVERSITY

ANNOUNCEMENT OF THE

SCHOOL OF DENTAL AND

ORAL SURGERY

OF THE

FACULTY OF MEDICINE

1948-1949

COLUMBIA-PRESBYTERIAN MEDICAL CENTER
630 WEST 168TH STREET · NEW YORK 32, N. Y.

Columbia University Bulletin of Information

Forty-eighth Series, No. 31

July 24, 1948

Issued at Columbia University, Morningside Heights, New York 27, N. Y., weekly from December for forty-four consecutive issues. Re-entered as second-class matter September 13, 1946, at the Post Office at New York, N. Y., under the Act of August 24, 1912. Acceptance for mailing at a special rate of postage provided for in Section 1103, Act of October 3, 1917, authorized.

The series includes the Report of the President to the Trustees, and the Announcements of the several Colleges and Schools, relating to the work of the next year. These are made as accurate as possible, but the right is reserved to make changes in detail as circumstances require. The current number of any of these Announcements will be sent upon application to the Secretary of the University.

C. U. P. 10,500—1948.

COMMUNICATIONS

All communications regarding the School of Dental and Oral Surgery, application for admission, and appointments for personal interviews should be addressed to the School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y.; telephone Wadsworth 3–2500.

ANNOUNCEMENTS

The Announcements of each College or School and of the Summer Session may be obtained without charge from the Secretary of the University.

Letters requesting more detailed information than is contained in this Announcement, and all correspondence regarding admission, should be addressed to the Dean, School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y.

THE PRINTING OFFICE COLUMBIA UNIVERSITY PRESS

2960 Broadway



New York, N.Y. 3480

To: Associate Dean D. R. East 630 West 168th Street New York 27, N. Y.

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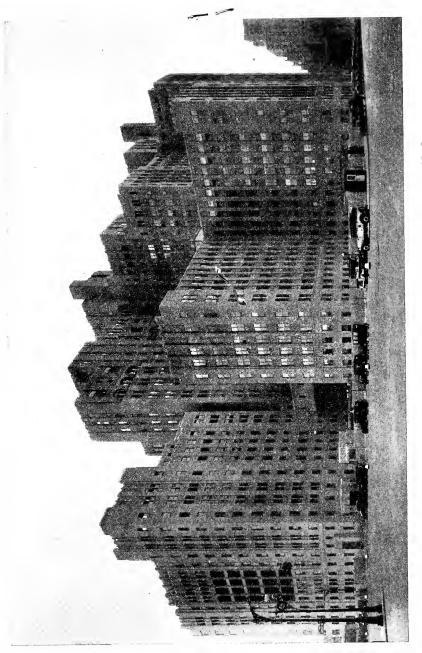
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Announcement -OF DENTAL & ORAL SURGERY

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THE MEDICAL CENTER, INCLUDING THE SCHOOL OF DENTAL AND ORAL SURGERY WING AT THE RIGHT

Columbia University in the City of New York

ANNOUNCEMENT OF THE

SCHOOL OF DENTAL AND ORAL SURGERY

OF THE

FACULTY OF MEDICINE



1948-1949

COLUMBIA-PRESBYTERIAN MEDICAL CENTER
630 WEST 168TH STREET
NEW YORK 32, N.Y.

FORM OF BEQUEST

To the Trustees of Columbia University in the City of New York I give and bequeath the sum of \$....., to be used by said Trustees for the uses and purposes of said Corporation.

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CONDENSED ACADEMIC CALENDAR

1948

September 9 Thursday, to September 11, Saturday. Registration, including payment of fees.

September 13 Monday. Classes begin.

November 2 Tuesday. Election Day. Holiday.

November 25 Thursday. Thanksgiving Day. Holiday.

November 27 Saturday. End of first trimester.

November 29 Monday. Beginning of second trimester.

December 20 Monday, to

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January 2 Sunday. Christmas holidays.

February 12 Saturday. Alumni Day.

February 22 Tuesday. Washington's Birthday. Holiday.

February 26 Saturday. End of second trimester.

February 28 Monday. Beginning of third trimester.

March I Tuesday. Last day for filing applications for degrees.

April 11 Monday, to April 17, Sunday. Easter holidays.

May 21 Saturday. Last day of classes.

Monday, to May 28, Saturday. Final examinations.

May 30 Monday. Memorial Day. Holiday.

June I Wednesday. Conferring of degrees.

3 days

FACULTY OF MEDICINE

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CLAUS W. JUNGEBLUT

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2 On leave Winter Session.

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	SAMUEL R. DETWILER	k	Lewis R. Stowe
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1	Magnus I. Gregersen		DANIEL E. ZISKIN.
	Maurice J. Hickey		THE DEAN, ex officio
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VET M. LEVY EWING C. McBeath

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JOHN B. TRUSLOW, ex officio

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- Brand - Mary Finneran - 1000 . 20197	 . Assistant to the Bursar
TERIANIE ERNA W. OCHART	
ESTELLE BRODMAN, M.S.	 Assistant Librarian
THOMAS P. FIEMING, M.S. 1 On leave 1948-1949.	LIBRARIAN
On reave 1949.	

THE SCHOOL OF DENTAL AND ORAL SURGERY

Columbia University was founded in 1754 as King's College by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The Revolutionary War interrupted its active work, but in 1784 it was reopened as Columbia College. In 1912 the title was changed to Columbia University in the City of New York.

From its inception, the program of dental education in Columbia University has been fostered by and associated with the University's School of Medicine. The Faculty of Medicine at its stated meetings of November and December, 1915, recommended to the Trustees that a Dental School be established in the University on

"University Lines."

The President of the University in his annual report of 1916 informed the Trustees that "during the year a group of men have come forward with a well-supported proposal that there be established in connection with the Medical School, a school for the training of dental surgeons." The President also reported that "the project was carefully formulated and presented to the Medical Faculty and received the formal approval of that Faculty and later of the Trustees."

In May, 1916, the University issued a pamphlet entitled A Dental School on University Lines. In this pamphlet the University stated its intent to establish a school of dentistry in affiliation and coördination with the School of Medicine. The pamphlet's introductory statement outlined the University's policy for dental education

which has been consistently followed:

Dentistry and Dental Education are on the threshold of extraordinary development but are unable to take advantage of their opportunities because of the traditional separation of dentistry and medicine. Dentistry has been shown by recent investigations and research to be logically a branch of general medicine.

In the fall of 1917 Mr. James N. Jarvie gave a substantial sum to a fund "to found and maintain the proposed dental school of the University, described in the pamphlet entitled A Dental School on University Lines issued by Columbia University

sity, May 1916."

In September, 1916, students in dentistry were admitted to courses in Columbia University at the School of Medicine. On March 5, 1917, the Trustees of the University established a school of Dentistry as of September 27, 1916, and from that date the School became an integral part of the University. On March 1, 1920, the dental building adjacent to the School of Medicine and Vanderbilt Clinic was finished and assigned to the use of this school.

On July 1, 1923, the College of Dental and Oral Surgery of New York (organized in 1905) was merged with the School of Dentistry, and the combined institutions named the School of Dental and Oral Surgery of Columbia University. By this merger Columbia acquired two large buildings, at 302–306 East 35th Street and 309–315 East 34th Street, in which the School was housed up to the time of moving into the Medical Center.

The merging of the schools did not alter the University's policy for dental education. In the 1923–1924 Announcement of the School of Dental and Oral Surgery, this policy was reaffirmed by the statement, "It is the purpose of the School of Dental and Oral Surgery to combine in the highest degree practicable a sound knowledge of the fundamentals of medicine with adequate training in the technical procedures of dental science and art."

In September, 1928, the School was moved to the Columbia University-Presbyterian Hospital Medical Center. The dental department of the School occupies the three upper floors of the Vanderbilt Clinic wing, a net floor area of 40,000 square feet. The fundamental science subjects, which are given to both dental and medical students, are taught in the adjoining College of Physicians and Surgeons, the corridors of the two schools being continuous. In adjacent wings, the halls of which are also continuous with those of the School, the wards and out-patient departments of the Presbyterian and associated hospitals are located, thus giving the closest possible contact and association with all branches of health service. The Dental School clinic includes as one of its functions the dental care of the patients of the Medical Center

hospitals.

In order to strengthen the instruction of dental and medical students and to fulfill a further step in the integration of dental education and research with the medical program at the Columbia-Presbyterian Medical Center which was visualized when the Dental School was made a part of the Center in 1928, the Faculties of the two schools were merged July 1, 1945. This Faculty is responsible for the educational programs in Medicine, Dentistry, Public Health, Nursing, Graduate and Postgraduate Medical and Dental Education. A Committee on Dental Education, established by University statute, of which a majority shall be from the Department of Dental and Oral Surgery and of which the Associate Dean for Dental and Oral Surgery shall be the chairman, will initiate recommendations to the Faculty on the qualifications and admission requirements for dental students, the curriculum of instruction, the candidates for the degree of Doctor of Dental Surgery, and other educational matters dealing with dentistry.

The course in dentistry covers four academic years leading to the degree of Doctor of Dental Surgery. The greater part of the first two years of the curriculum is taken in the fundamental science departments of instruction in the University which are integral parts of the College of Physicians and Surgeons and the School

of Dental and Oral Surgery.

REQUIREMENTS FOR ADMISSION, PROMOTION AND GRADUATION

ADMISSION TO FIRST YEAR OF THE SCHOOL OF DENTAL
AND ORAL SURGERY

Application. It is desirable that candidates make application during the academic year preceding that in which they seek admission. It is not necessary to complete the academic requirements before making application. However, all requirements must be completed before matriculation. Application blanks will be furnished by

the Dean's office of the School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y. Application blanks must be completely filled in and accom-

panied by an official transcript of the college record.

The minimum requirement for admission to the first-year class is the satisfactory completion of three full years at an acceptable college of arts and sciences, which must include the satisfactory completion of the courses required for the dental student qualifying certificate as mentioned below.

The New York State Board of Regents includes the following subjects in the

minimum requirements for the qualifying certificate:

													Si	emester Hou	rs
English c	omp	osi	ion	and	llit	erat	ure							6	
Physics	. •													6	
Biology														6	
Chemistr														12	

A point or semester hour is the equivalent of one hour of lecture or recitation or of two hours of laboratory work per week, per semester. Suitable laboratory work

must be included in each of the courses in science.

Inasmuch as an understanding of the biological sciences is based upon the knowledge of the underlying sciences of chemistry, physics, and biology, students are urged, so far as time permits, to take additional courses in quantitative, qualitative, physical, and organic chemistry, physics, comparative anatomy and other advanced courses in biology, as well as courses in mathematics, German and French, sociology, history, and other subjects of general cultural and scientific value. Courses in fine and industrial arts are also of value.

Owing to the limited number of students who can be accommodated, completion of the requirements for entrance does not guarantee admission. The entire predental record of each student is carefully examined by the Committee on Admissions in order that those who are adjudged most capable of meeting the exacting demands of the course and of the profession of dentistry may be selected. Preference will be given in the selection of students to those who present to the Committee on Admissions evidence of high achievement in selected college courses of special predental value and who, in the opinion of the Committee on Admissions, are most likely to succeed in dentistry, rather than to those who present the largest number of course credits or those who have limited their preparation to the prescribed subjects. Acceptance of a student for admission is based on grounds of character and health, as well as on the fulfillment of academic requirements.

An acceptance fee of \$50 is payable within two weeks after notification of accept-

ance (see page 11).

COMBINED COURSES

Combined Courses with Columbia College. Upon receiving ninety-four points credit, sixty-four of which must be for work in Columbia College, including all the work prescribed for the degree of Bachelor of Arts in Columbia College, a student may take studies in the first year of the School of Dental and Oral Surgery, provided he can satisfy the stated requirements and is accepted for admission therein, and will receive the degree of Bachelor of Arts from Columbia College upon the satisfactory completion of the year's work. No course may be counted toward a

professional degree and at the same time be included among those which go to

make up the ninety-four points referred to above.

Combined Courses with Barnard College. Students from Barnard College may exercise the professional option after the completion of 90 points of academic work, including all grouped work and a major of 28 points unless this number is reduced in individual cases by special permission of the Committee on Instruction of Barnard College.

Combined Courses in Dentistry and Medicine. It is usually possible for a graduate of a registered medical school with the degree of Doctor of Medicine to meet the requirements of the School and receive the degree of Doctor of Dental Surgery by

the satisfactory completion of a special two-year course.

ADMISSION OF FOREIGN STUDENTS

The State Department of Education has special requirements with which students who are not citizens of this country must comply. Any foreign student desiring to apply to the School of Dental and Oral Surgery should communicate with the Dean.

REGISTRATION

Before attending University courses, every student must present himself at the office of the Registrar and file a registration blank giving such information as may be required. The periods set aside for registration in each session are stated in the Academic Calendar at the beginning of this Announcement. Registration at a later date is permitted only on the written permission of the Dean, satisfactory cause for the delay having been shown.

FEES

The University Statutes provide that tuition fees, the University fee, and laboratory deposits are payable semiannually in advance. No reduction is made for late registration. Registration will not be complete until such fees are paid. Checks should be drawn to the order of Columbia University and presented in person or mailed to the office of the Bursar. Payment of fees after the last day of registration (see the Academic Calendar) imposes automatically the statutory charge of \$3.00 for this privilege. Under the regulations, the privileges of the University are not available to any student until he has completed his registration.

The fees to be paid by students are subject to change at any time at the discretion

of the Trustees.

The following annual fees are prescribed for dental students:

(a) University Fee

For all students for one academic year, or for any part thereof, payable in two installments

(b) Tuition Fee

For the course in dentistry for one academic year (or equivalent) in the 750.—case of a student enrolled for the full course, payable in two installments.—600.00 For students not enrolled for the full course, fees are to be assessed by the Registrar as provided by the University Statutes.

\$20.00

	DENIAL AND GARESONGERI	
(c)	Fee for Application For a degree	\$20.00
(d)	Privileges 1. Late registration or late application for a degree or for deficiency or special examinations	3.00
	 Deficiency or special examinations Renewal of application for any degree 	1.00
(e)	Student Activities (payable annually) For all students, Dental Abstracts Journal	√ 2.00 v
(f)	Student Health Service Fee This fee will be used to pay the annual premium of the Associated Hospital Service of New York for hospital insurance and to pay part of the cost of the student health service. For all students, per academic year	20.00
(g)	Case Rental For sophomores, juniors, and seniors, rental for one instrument case, for one academic year, payable in two installments (5.00
(h)	Rebates 1. The University fee and the fee for application for any degree shall not be subject to rebate. 2. If a student withdraws from the School a partial return of tuition fee may be authorized by the Registrar. When a rebate is allowed for the discontinuance of courses or withdrawal from the University, such rebate will be reckoned from the day upon which the Registrar receives notice from the student.	(
(i)	Deposit Required of each student to cover material and breakage in the laboratories and clinic. The deposit for breakage includes apparatus to replace broken articles or articles not returned at the close of the course; any chemicals not in the kit of chemicals supplied to each student, or additional quantities of chemicals beyond this allowance; and service in washing apparatus or work by a mechanic. Refund of any balance will be made upon the completion of	^V 25.00

Acceptance Fee. Within two weeks after an applicant has been notified that his application has been accepted, he must notify the Dean that he intends to matriculate and accompany his communication with a check or money order for \$50, payable to Columbia University. This acceptance fee will belong to the University and, if he does not register at the School for the specific session, it will not be returned. If he registers at the School at the next enrollment of entering students, the amount of the acceptance fee will be deducted from his tuition fees for that session.

the prescribed course or withdrawal from the School.

Fees for Repeated Courses. Students obliged to repeat the work for any year are required to pay the full tuition fee.

DENTAL EQUIPMENT

Instruments and Supplies. Each student is required to supply himself with instruments as specified in the official instrument list. The purchase from the Univer-

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sity of instruments in original package outfits has been made compulsory, and unauthorized or incomplete equipment will not be accepted by the instructors. All technic material and regular supplies must be purchased from the University upon order from the instructor. The students will not be allowed to purchase more than is required to complete a case. The quantity and quality are selected with a view to the best possible results and conservation of the student's best interests.

Microscopes. All students entering the School of Dental and Oral Surgery are required to provide themselves with microscopes of a satisfactory type. A microscope of standard make fitted with the following attachments will fill the requirements:

Triple nosepiece Abbe condenser

10x and 6x oculars
16 mm. and 4 mm. objectives

Oil immersion lens

The cost of a suitable reconditioned microscope varies from \$60 to \$100, depending on the make and model. The standard price of new microscopes is \$155. (At present microscopes are difficult to obtain at any price.) Each student should also provide himself with a substage lamp.

Lockers. Each student will be assigned a locker on entering and will be required

to use a combination lock as prescribed by the School.

ESTIMATED EXPENSES

Following is an itemized estimate of the average expenses of a full-time student for an academic year in the School of Dental and Oral Surgery exclusive of travel, clothing, amusements, charity, organizations, and sundries. These items are, of course, variable, but should not be overlooked in estimating the total expense. The tuition, room, board, books, and laundry figures are based upon the rates which prevailed during 1947–48 and can be accepted as applicable in general for the year 1948–49 unless national economic changes require their alteration.

Tuition and fees. University feer				Average	Minimum
Room Room	•	•	•	\$675.00	\$650.00
				330.00	190.00
Board				385.00	350.00
Books				1,00.00	63.00
Instruments (see below).				300.00	300.00
Laundry				75.00	35.00
				\$1,865.00	\$1,590.00

These estimates are subject to correction as the basic prices of supplies and instruments change. Instruments are to be paid for at the opening of the academic year. The cost of books will vary, depending upon the choice made from the selection offered.

STUDENTS - CK

Each person whose registration has been completed will be considered a student of the University during the session for which he is registered unless his connection with the University is officially severed by withdrawal or otherwise. No student

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registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the consent of the appropriate Dean or Director.

Students prevented by conscientious scruples from complying with academic requirements which may be fulfilled only upon days set apart by their church for religious observance should make application to the Dean for equitable relief.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University, which is free to cancel his registration at any time on any grounds which it deems advisable. The disciplinary authority of the University is vested in the President in such cases as he deems proper, and, subject to the reserved power of the President, in the Dean of each Faculty and the Director of the work of each Administrative Board.

WITHDRAWAL & OX

An honorable discharge will always be granted to any student in good academic standing, and not subject to discipline, who may desire to withdraw from the University; but no student under the age of twenty-one years shall be entitled to a discharge without the assent of his parent or guardian furnished in writing to the proper Dean. Students withdrawing must notify the Registrar immediately.

The Dean of the School may, for reasons of weight, grant a leave of absence to a student in good standing.

REQUIREMENTS FOR PROMOTION

- 1. A student may be admitted to the second, third, or fourth year of the dental curriculum only upon the recommendation of the class officers of instruction under which he has studied during the preceding year.
- 2. The School of Dental and Oral Surgery reserves the right to refuse readmission or promotion to any student who is believed for any reason to be unsuited to the conditions of study in this school.

Students are classified for readmission or promotion under the following headings:

- I. Recommended for advancement
- II. Recommended for readmission to the same class
- III. Recommended neither for advancement nor for readmission to the same class
 - a) Because of failure
 - b) Those who fall under paragraph 2 of rules for advancement of students

GRADING OF STUDENTS

The following grade equivalents are used: A, excellent; B, good; C, fair; F, failure.

REQUIREMENTS FOR GRADUATION

In addition to complying with the requirements for admission and to completing the required work of the curriculum, each candidate for the degree of Doctor of Dental Surgery must present satisfactory evidence as required by law of good moral character and of having attained the age of twenty-one years. If the candidate shall have been admitted to advanced standing, he must have spent not less than four academic years or their equivalent in approved medical or dental colleges in the study of the subjects making up the curriculum of the School of Dental and Oral Surgery.

GRADUATION

Commencement occurs in June, at which time all recipients of degrees awarded during the academic year are expected to attend the exercises unless excused. Diplomas are issued in June or at various times during the year.

No degree will be granted to a student who has not registered for and attended at the University courses of instruction equivalent to at least one academic year of

full-time work.

An application for a degree or certificate, other than the several doctoral degrees, terminates at the next regular time for the issuance of diplomas subsequent to the date of filing; but under conditions prescribed by the respective Faculties it may be subject to renewal for a fee of \$1.00 each time that a candidate chooses to come up for consideration, within a period not to exceed three years. Thereafter with the filing of a second application the regular fee is again payable—\$20 in the case of a degree and \$10 in the case of a certificate.

Dates for the filing of applications are given in the Academic Calendar at the

beginning of this Announcement.

COURSES FOR DENTAL HYGIENISTS

In September, 1947, the period of training for dental hygienists was increased from one to two academic years. On October 21, 1947, the University Council approved the establishment of the degree of Bachelor of Science to be conferred upon students who, having been admitted on the basis of two years of approved college study covering not less than sixty points in liberal arts subjects, including satisfactory courses in English, biological science or chemistry, and sociology or psychology, complete the course of instruction in the field of Dental Hygiene, consisting of two academic years of study, prescribed by the Faculty of Medicine.

Candidates for admission must be women between the ages of eighteen and thirty-five years and must present a record of good health. All candidates are required to make formal application in writing on blanks supplied by the School. After the application has been submitted, the academic record of the candidate will be secured by the School. Wherever possible, a personal interview is required before

the candidate is accepted.

Applicants must satisfy the following requirements: Two years of 60 semester hours of credit in liberal arts from a college or university approved by Columbia University. The following subjects are required:



English						6 semester hours
Biological science or chemistry.						3 semester hours
Sociology or psychology						3 semester hours

Upon the successful completion of the two-year curriculum in dental hygiene, the Bachelor of Science degree will be conferred.

Applicants who lack not more than 8 credits of the 60 credits required for admission will be considered for matriculation on the condition that the 8 credits be earned during the Summer Session between the Junior and Senior years.

For further information address the Dean, School of Dental and Oral Surgery,

630 West 168 Street, New York 32, N. Y.

SHORT COURSES FOR GRADUATES IN DENTISTRY

The School of Dental and Oral Surgery arranges courses in the various divisions of dentistry to meet the needs of groups of practitioners. In 1948–1949 short refresher courses will be offered in various subjects in accordance with demand.

Admission requirements include graduation from an approved dental school and licensure to practice dentistry within the United States or a foreign country. There is no degree or certificate offered for these specially arranged courses. For further information see the Announcement of Postgraduate Courses for Dentists, which may be obtained from the Dean, School of Dental and Oral Surgery.

CERTIFICATE OF TRAINING

The School of Dental and Oral Surgery is authorized to grant a certificate of training in dentistry or in a special branch of dentistry selected by the candidate and approved by the School of Dental and Oral Surgery to students who have been graduated from an acceptable school of dentistry in the United States or a foreign country.

The course of study for the certificate of training includes not less than fortyeight trimester credits of special work in the clinical branches of dentistry approved by the Dean. At present, an organized fifteen months' course is offered to qualified graduates in dentistry who wish to prepare for specialization in orthodontics. Advanced courses leading to certificates of training are also offered in General Restorative Dentistry, in Oral Diagnosis and Roentgenology, in Oral Surgery, in Orthodontics, in Pedodontics, and in Periodontology. For further information see the Announcement of Postgraduate Courses for Dentists, which may be obtained from the Dean, School of Dental and Oral Surgery.

GRADUATE COURSES IN THE BASIC SCIENCES

A limited number of fellowships are available to graduates of dental schools acceptable to Columbia University. These fellowships offer opportunity for study in the following basic science departments of the University: Anatomy, Bacteriology, Biochemistry, Pathology, Pharmacology, and Physiology. For further information regarding qualifications and stipend, address the Dean, School of Dental and Oral Surgery.

COURSES LEADING TO THE DEGREE OF DOCTOR OF PHILOSOPHY

Graduation from accredited dental schools under the present curriculum of four academic years preceded by three acceptable predental college years is considered by the Graduate Faculties of Columbia University as meeting the general requirement for admission. There are additional admission requirements in certain departments. A student who is accepted by the Graduate Faculties as a candidate for the degree of Doctor of Philosophy and who holds the Doctor of Dental Surgery degree from Columbia University may, with the consent of the Dean, offer the work done for the professional degree in lieu of thirty points toward the fulfillment of the resident requirement for the degree. For further information see the Announcement of the Faculty of Pure Science, which may be obtained from the Secretary of the University, Columbia University, New York 27, N. Y.

PUBLIC HEALTH FOR DENTISTS

A one-year course leading to a Master of Public Health degree is offered by the School of Public Health. The course is open to graduate dentists. For further information regarding course content, registration, and fees apply to the Director, School of Public Health, 600 West 168th Street, New York 32, N. Y.

LICENSE TO PRACTICE DENTISTRY IN NEW YORK STATE

Those desiring to take the New York State Board examinations are advised to address the Chief of Professional Examinations Bureau, New York State Department of Education, Albany, New York. All applications for admission to the examinations should be completed at least fifteen days before the examinations begin.

The examinations are conducted by the Department, and answer papers are read and marked by the Board, who know the candidate only by number. The subjects of the licensing examinations are anatomy, chemistry and metallurgy, operative dentistry and radiography, therapeutics and materia medica, physiology and hygiene, oral surgery, pathology and bacteriology, prosthetic dentistry, and histology. The operative and prosthetic subjects are divided into theory and practice. The minimum standing required in each subject is 75 percent.

The State Department of Education will admit conditionally to the examinations in anatomy, physiology, chemistry and metallurgy, and histology, applicants over nineteen years of age who are of good moral character, who are citizens of the United States or have declared the intention of becoming citizens in accordance with the law, and who are certified as having successfully completed the first two

years of the required course in a registered dental school.

PLAN OF INSTRUCTION

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The curriculum is arranged with the object of providing the student with the necessary opportunities for acquiring a knowledge of the fundamental sciences in relation to dentistry and the technics of approach in dental problems. Beginning in the first two academic years with a study of the basic sciences, particularly anatomy, biochemistry, bacteriology, pathology, pharmacology, and physiology, the student prepares himself for an understanding of the problems to be encountered in his later clinical work. The third and fourth academic years are devoted to mastering the methods of diagnosis and treatment of patients and acquiring a knowledge of disease patterns and the arts and skills required in preventing, curing, or controlling them.

Throughout the entire course an effort is made to interrelate the different phases of the dental learning by means of "correlative" and "combined" clinics in which the various departments and divisions coöperate in the discussion and demonstration of the same and related problems and thus treat the study of dentistry as a unit rather than a series of isolated branches of learning. At the same time an attempt is made to individualize instruction and to place responsibility as far as practical upon the student for his own training. This is accomplished by means of the division of classes into small sections, conferences, and the comprehensive case method of instruction.

CURRICULUM

1948-1949

Subject*	Trimester Credits	Lecture or Seminar Hours	Lab. or Clinic Hours	Total Hours
FIRST YEAR			!	
Anatomy				
Embryology 152 F	1	16		16
Gross 151 FS	13	50	241	291
Microscopic 150 FS	8	42	126	168
Neuro 153 T	4	30	36	66
Oral 101 ST		19	104	123
Biochemistry 150 ST	5 8	39	128	167
Histology, Oral 115 ST		7	65	72
Physiology 150 FS	11	56	191	247
	52			1,150

^{*} Letter following course number designates trimester: F is first, S is second, and T is third.

Lecture or Lab. or Trimester Seminar Clinic Total Hours Hours Credits Hours Subject* SECOND YEAR Bacteriology 151 F and 152 F Crown and Bridge 105 ST . . . Dental Materials 126 FS Operative Dentistry 131 FST Oral Hygiene 122 T Pathology 150 FS Periodontology 151 T Pharmacology 150 ST Prosthetic Dentistry 157 FST Psychiatry 150 S T **T** I . . . Theory and Practice Dental History 283 F Therapeutics 286 T T το TO 1,156 THIRD YEAR Anatomy, Applied 252 S Crown and Bridge Technic 205 F and 207 F Clinic 206 ST TO Applied Occ. Dynamics 212 T. . . . Diagnosis 212 FST Operative Dentistry 233 FST Orthodontics 241 F Pathology, Oral 246 FS Periodontology 251 S Practice of Medicine 278 ST Prosthetic Dentistry 260 FST and 261 FST τ Surgery, Oral 270 FT 1,071 FOURTH YEAR Crown and Bridge 210 FST and 211 FST Diagnosis 213 F I Diagnosis Seminar 214 S o Orthodontics 243 FST Ţ . . . Operative Dentistry 234 FST Pedodontics 202 FST Periodontology 252 FS and 253 FS... Prosthetic Dentistry 263 FST and 264 FST ≺ Public Health 222 S Surgery, Oral 272 FST Surgery Seminar 274 T Surgical Prosthesis 265 I Theory and Practice Ethics 281 T Jurisprudence 282 ST O Comprehensive 285 n . . . 1,064

^{*} Letter following course number designates trimester: F is first, S is second, and T is third.

COURSES OF INSTRUCTION

For purposes of instruction the work of each academic year is scheduled in three sessions which are designated as First, Second, and Third Trimesters. The unit of credit signifies approximately three academic hours of work a week for one session. For classroom work this means one hour a week in class and an average of two hours of homework. For laboratory or clinical work it represents approximately three academic hours of work a week in the School.

For a detailed statement of the content of each course, the student is referred to the departmental statements which follow. Courses numbered from 100 to 199 are open to candidates for the degree of Doctor of Dental Surgery in the first and second academic years. Courses numbered from 200 upward are open to candidates for the degree of Doctor of Dental Surgery in the third and fourth academic years.

The outline on pages 17 and 18 shows the work required of a candidate for the degree of Doctor of Dental Surgery. The University reserves the right to make such changes in the program of studies at any time as experience may prove desirable.

ANATOMY

Anatomy 101—Oral anatomy. Freshman year. 5 credits.

Lectures, recitations, and laboratory on the growth and development of the jaws and face and the individual teeth, the structural formation of the teeth, the anatomy of the surrounding and related tissues of the oral cavity, and the morphology of the teeth.

Anatomy 115—Oral histology and embryology. Freshman year. 2 credits.

Lectures and laboratory on the microscopic structures of the oral tissues and the application of this knowledge to technical dentistry.

Anatomy 150-Microscopic anatomy. Freshman year. 8 credits.

Lectures, conferences, and laboratory. This course is the same as Anatomy 101F in the Medical School.

Anatomy 151-Gross anatomy. Freshman year. 13 credits.

Lectures, conferences, and laboratory.

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Anatomy 152-Embryology. Freshman year. 1 credit.

Lectures and demonstrations dealing with the dynamics of vertebrate development, with particular reference to mammals and man.

Anatomy 153-Neuroanatomy. Freshman year. 4 credits.

Lectures and demonstrations on the gross anatomy, structure, and functions of the central nervous system. This course is equivalent to Anatomy 106S in the Medical School.

Anatomy 252—Applied anatomy of the head and neck. Junior year. 1 credit.

Lectures and demonstrations. A review course with special application to the problems of the major fields of dentistry.

BACTERIOLOGY

Bacteriology 151—General medical bacteriology and immunology. Sophomore year. 4 credits.

Lectures, conferences, and laboratory.

Bacteriology 152—Principles of bacteriology, epidemiology, infection, immunity, serum diagnosis, and specific therapy. Sophomore year. 3 credits.

This course is identical with *Bacteriology 105F* in the Medical School except that lectures on the mouth bacteria are substituted for several of those of the medical series.

BIOCHEMISTRY

Biochemistry 150—Introductory biochemistry. Freshman year. 8 credits.

Lectures and laboratory. A study of the chemistry of life processes with special reference to the animal organism.

DENTAL MATERIALS

Dental Materials 126—Physical properties of dental materials. Sophomore year. 2 credits.

Lectures and laboratory on the physical and chemical properties of the metals and other materials used in dentistry, with clinical applications.

DIAGNOSIS

Diagnosis 212—Dental diagnosis lecture and clinic. Junior year. 4 credits.

Lectures, conferences, and clinical practice in oral examination and charting, history-taking, methods of pulp testing, dental x-ray diagnosis, oro-dental symptomatology, and occlusal disharmonies.

Diagnosis 213—Dental diagnosis clinic. Senior year. 1 credit.

Continuation of clinic of Diagnosis 212.

Diagnosis 214—Diagnosis seminar. Senior year. No credit.

Discussion and differential diagnosis of selected cases.

MEDICINE

Medicine 278—General survey of medicine. Junior year. 5 credits.

Lectures and conferences covering phases of general medicine pertinent to dentistry and clinics for small groups in which the patients are studied for correlation of systemic and dental conditions.

OPERATIVE DENTISTRY

Operative Dentistry 131—Elements of operative dentistry. Sophomore year. 8 credits.

Lectures on the fundamentals of operative dentistry. Technical procedures in the filling of teeth, the study of dental materials, and introduction to clinical practice.

Operative Dentistry 233—Operative clinical practice. Junior year. 10 credits.

Lectures on the application of operative fundamentals to clinical practice. The technic of porcelain inlay construction. Clinical practice and demonstrations.

Operative Dentistry 234—Advanced operative clinical practice. Senior year. 13 credits.

A continuation in lectures and clinic of *Operative Dentistry 233* with the consideration of special problems in operative practice, including root canal therapy.

ORAL HYGIENE

Oral Hygiene 122—Oral hygiene lectures. Sophomore year. 2 credits.

Lectures and conferences on scientific findings relating to the causes and prevention of the common diseases and defects of the teeth.

ORTHODONTICS

Orthodontics 241—Principles of orthodontics. Junior year. 3 credits.

Lectures and laboratory. Orthodontic fundamentals with special emphasis on prevention in orthodontics by the early recognition and correction of the predisposing factors. Laboratory time devoted to the designing and constructing of removable appliances used as space maintainers, habit breakers, and to correct tooth alignment in preparation for restorative dentistry and treatment of periodontal conditions. Clinical practice in the use of appliances constructed in the laboratory.

Orthodontics 242-Orthodontic clinic. Junior year. No credit.

Clinical orthodontics.

Orthodontics 243—Orthodontic clinic. Senior year. 1 credit.

Orthodontics 242 continued in the Senior year.

PATHOLOGY

Pathology 150—General and special pathology. Sophomore year. 9 credits.

A study of important pathological conditions, demonstrated by museum specimens and a very complete series of histological preparations.

Pathology 246—Oral pathology. Junior year. 4 credits.

Lectures, conferences, and laboratory work on the pathology of the diseases of the jaws, mouth, and teeth.

Pathology 247—Oral pathology seminar. Senior year. No credit. Elective. Conferences on the clinical application of oral pathology.

PEDODONTICS

Pedodontics 202-Pedodontics, lectures and clinic. Senior year. 4 credits.

Lectures and conferences on operative dental procedures for children, the handling of the child, and the application of present knowledge of preventive dentistry. Clinical work includes history-taking, prophylaxis, and restorative procedures adapted to deciduous and early permanent dentitions.

PERIODONTOLOGY

Periodontology 151-Periodontia clinic. Sophomore year. 1 credit.

Lectures, laboratory, and clinical work on personal dental hygiene, dental prophylactic technic, and simple periodontia.

Periodontology 251-Periodontia clinic. Junior year. 1 credit.

Lectures and clinical work in the diagnosis and treatment of periodontoclasia.

Periodontology 252—Periodontology lectures. Senior year. 2 credits.

Lectures and conferences on the theory and practice of periodontology.

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Periodontology 253-Periodontia clinic. Senior year. 1 credit.

Advanced work in the clinical diagnosis and treatment of periodontoclasia.

PHARMACOLOGY

Pharmacology 150—General pharmacology. Sophomore year. 6 credits.

Lectures, conferences, and laboratory. In this course the pharmacological action of drugs on man and lower animals is studied.

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PHYSIOLOGY

Physiology 150—Mammalian physiology. Freshman year. 11 credits. Lectures, conferences, and laboratory.

PROSTHETIC DENTISTRY

Prosthetics 105—Crown and bridge lectures and technic. Sophomore year. 6 credits.

Lectures on the technical procedures in crown and bridgework with practical application, and the construction of bridges and crowns on technic models.

Prosthetics 157—Prosthetic lectures and technic. Sophomore year. 9 credits.

Lectures and technical procedures in full and partial denture construction.

Prosthetics 205—Crown and bridge lectures and technic. Junior year. 2 credits.

Lectures on the technical procedures in crown and bridgework with practical application, and the construction of bridges and crowns on models and extracted teeth.

Prosthetics 206—Crown and bridge clinic. Junior year. 5 credits.

Clinical construction of elementary crown and bridgework.

Prosthetics 207—Porcelain technic. Junior year. 1 credit.

Uses of porcelain; construction of porcelain jacket crown on technic model; staining and glazing of artificial teeth.

Prosthetics 210—Crown and bridge lectures. Senior year. 1 credit.

Lectures and conferences on various types of bridgework.

Prosthetics 211—Crown and bridge clinic. Senior year. 5 credits.

Clinical construction of crown and bridgework.

Prosthetics 212-Applied occlusal dynamics. Junior year. 1 credit.

Lectures, demonstrations, and technic stressing the relationship of occlusal deformities, both natural and acquired, to oral physiology. Correlation of all factors involved in the corrective and restorative procedures.

Prosthetics 260—Prosthetic lectures. Junior year. 2 credits.

Examination, classification, application of anatomical considerations, and clinical procedure in full and partial denture construction.

Prosthetics 261-Prosthetic clinic. Junior year. 6 credits.

Clinical construction of full and partial dentures.

Prosthetics 263—Prosthetic clinic. Senior year. 5 credits.

Clinical construction of full and partial dentures.

Prosthetics 264-Prosthetic lectures. Senior year. 1 credit.

A series of lectures by outstanding local practitioners in the prosthetic field on clinical considerations in partial denture diagnosis, design, and construction.

Prosthetics 265—Surgical prosthesis. Senior year. 1 credit.

Lectures and technical procedures in maxillofacial and surgical prosthesis.

PSYCHIATRY

Psychiatry 150—Psychopathology. Sophomore year. 1 credit.

Lectures in psychobiology; the growth, instinctive and emotional development of the individual from birth to adulthood; personality traits and patterns; personality factors in physical illness; types of abnormal behavior based on brain pathology, on functional processes or habit disturbances, with clinical demonstrations. Principles of mental hygiene and environment adjustments.

PUBLIC HEALTH

Public Health 222—Principles of public health. Senior year. 2 credits.

Survey course in the theory and practice of preventive medicine, dentistry, and public health. Fundamental principles of administration, statistics, epidemiology, industrial hygiene, and sanitation. The principles and problems of dental public health practice are emphasized.

Public Health 223—Epidemiology and biostatistics. Elective, senior year. Six hours a week for 8 weeks.

A lecture and laboratory course in introductory vital statistics. Offered to seniors who are eligible for electives.

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RADIOLOGY

Radiology 267—Oral radiology practice. Junior year. redit.

Lectures, readings, and discussions on topics relative to oral radiology. Practice in exposing, processing, and mounting dental radiographs.

SURGERY

Surgery 270—Oral surgery. Junior year. 2 credits.

Lectures, conferences, demonstrations, and clinical practice on local and general anesthesia and the removal of teeth.

Surgery 272—Oral surgery. Senior year. 6 credits.

Lectures and conferences on oral and maxillofacial surgery and general anesthesia.

Clinical practice in the removal of teeth and in local and general anesthesia. Clinical demonstrations in the diagnosis and operative procedures in the treatment of pathological conditions and injuries about the face, jaws, and oral cavity.

Surgery 274—Oral surgery seminar. Senior year. No credit. Required.

Lectures and demonstrations in treatment planning and diagnosis in the field of oral surgery.

THEORY AND PRACTICE OF DENTISTRY

Theory and Practice 281—Dental ethics and practice management. Senior year. 1 credit.

Lecture and conference course on dental ethics, economics, office conduct and practice management.

Theory and Practice 282—Dental jurisprudence. Senior year. No credit.

Lecture and conference course in dental jurisprudence.

Theory and Practice 283—Dental history. Sophomore year. 1 credit.

Lecture and conference course in dental history.

Theory and Practice 285—Comprehensive case. Senior year. No CA

Each student is assigned a case for which he performs all the dental services: taking of x-ray negatives, treatment planning, surgery, and reparative and restorative procedures. The services are carried out in the various clinical divisions, where grades are entered for the student toward the fulfillment of his clinical requirements. The oral examination accompanying the inspection of the completed case aims to correlate the teaching of the entire course.

Theory and Practice 286—Therapeutics. Sophomore year. 1 credit.

Lectures and conferences on drugs and other therapeutic agents used in dentistry. Formerly *Pharmacology 250*.

TEXTBOOKS

The following list includes most of the books normally used. As a rule, only the latest editions of the textbooks should be purchased. Students are warned against buying any books until specifically advised by the departments concerned.

ANATOMY. Gross anatomy: Stedman, Gould, or American, Medical Dictionary; Cunningham, Manual of Practical Anatomy, Vols. II and III; mimeographed Dissecting Directions; one of the following three: Cunningham, Textbook of Anatomy; Gray, Anatomy; or Morris, Human Anatomy; one of the following three: Grant, Atlas of Anatomy; Truex and Kellner, Detailed Atlas of the Head

and Neck; or Spalteholz, Hand Atlas of Human Anatomy.

Applied anatomy: Shapiro, Applied Anatomy of the Head and Neck; DE ANATOMY; HAMILTON, HUMAN EMERICLES, MICHAEL MICROScopic anatomy: Bailey, Textbook of Histology; mimeographed laboratory

- Neuroanatomy: Strong and Elwyn, Human Neuroanatomy; mimeographed laboratory manual.
 - V Oral anatomy: Diamond, Dental Anatomy, 3RD EDITION.
- ~ Oral histology and embryology: Orban, Oral Histology and Embryology. NTH EDITION; OR DUBOS BACTERIOLOGY: Jordan and Burrows, Textbook of Bacteriology; or Smith et al., INFECTION

Zinsser's Textbook of Basteriology. RIVERS' VIRAL AND RICKETTSIAL HARROW, TEXTBOOK OF BIOCHEMISTRY 4TH ED BIOCHEMISTRY: Hawk, Oser and Summerson, Practical Physiological Chemistry, 4TH EDITION:

- Karshan, Laboratory Manual of Biochemistry for Dental Students.
- DENTAL ETHICS AND PRACTICE MANAGEMENT: McGehee and Walker, Dental Practice Management.
- DENTAL THERAPEUTICS: Council on Dental Therapeutics, American Dental Association, Accepted Dental Remedies. 157 ED.
 - Diagnosis: Ziskin et al., Differential Diagnosis of Mouth Diseases; Ziskin, Handbook of Pulp Symptomatology and Diagnosis, 1943 ED.
 - MEDICINE: YATER, Fundamentals of Internal Medicine. 2 NO REV. ED.
 - OPERATIVE DENTISTRY: Black, Operative Dentistry, Vols. II and III; Operative Dentistry Syllabus.
 - ORAL PATHOLOGY: Cahn, Pathology of the Oral Cavity.
 - ORTHODONTICS: Salzman, Principles of Orthodontics.
 - PATHOLOGY: One of the following four: Boyd, Textbook of Pathology; Karsner, Textbook of Pathology; MacCallum, Textbook of Pathology; or Moore, Textbook ANDERSON # Pathology.
 - Pedodontics: McBride, Juvenile Dentistry. PERIODONTIA (LATEST ED.) PERIODONTOLOGY: GOLDMAN, PERIODONTIA (LATEST ED.)
 PHARMACOLOGY: Goodman and Gilman, Pharmacological Basis of Therapeuties; FOUR: mimeographed laboratory manual. ONE OF THE FOLLOWING
 - GADDUM, PHARMACOLOGY; GOODMAN AND GILMAN, PHARMACOLOGIC BASIS OF THERAPEUTICS (1941); SOLLMAN, PHARMACOLOGY; OR OLD HAM, KELSEY & GEILING, ESSENTIALS OF PHARMACOLOGY.

- PHYSIOLOGY: One of the following three: MacLeod's (ed. Bard) Physiology in Modern Medicine; Howell's (ed. Fulton) Textbook of Physiology; or Best and Taylor, Physiological Basis of Medical Practice; PHY SIOLOGY LABORATORY MAN
- PROSTHETIC DENTISTRY: Skinner, The Science of Dental Materials; Swenson, Complete Dentures; Tylman, Crown and Bridge Prosthesis; U. S. Government Printing Office, Physical Properties of Dental Materials, Bureau of Standards Circular C433; Young et al., Syllabus, ON COMPLETE DENTURES.
- COBB, FOUNDATIONS OF NEURO-PS
 PSYCHIATRY: Noyes, Modern Clinical Psychiatry; Gellhorn, Autonomic Regulations.
 380 REVISED ED. 1944.
- RADIOLOGY: McCall and Wald, Clinical Dental Roentgenology. 2 NO ED.
- Surgery: Berger, Principles and Technique of Oral Surgery; Berger, Principles and Technique of the Removal of Teeth; Parker, Synopsis of Traumatic Injuries of the Face and Jaw; Stout, Human Cancer; Homan, Textbook of Surgery.

DICTIONARY: W. B. Dunning and S. E. Davenport, A Dictionary of Dental Science and Art.

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STUDENT ORGANIZATIONS

OMICRON KAPPA UPSILON

Epsilon Epsilon chapter of Omicron Kappa Upsilon, national honorary fraternity, was chartered in the School of Dental and Oral Surgery in 1934. The purpose of this organization is to recognize and honor scholarship and, especially, character of outstanding quality in members of the senior class. The leading 12 per cent of the graduating class is eligible for election each year.

THE WILLIAM JARVIE SOCIETY

The William Jarvie Society for Dental Research is a nonsecret, dental honor society, membership in which is based upon scholarship and interest in dental research, and to which sophomores, juniors, and seniors are eligible. The society was organized in the School of Dental and Oral Surgery in 1920 and named after Dr. William Jarvie because of his wide interest in the promotion of dental research. The society aims to promote the spirit of research among the students.

DENTAL ABSTRACTS

Dental Abstracts is an official publication of the School of Dental and Oral Surgery of the Faculty of Medicine, written and published by the Dental Abstracts Society, an undergraduate organization. This periodical is issued four times yearly and is received by libraries, hospitals, dental, medical, and public health schools, organizations and individuals throughout the world.

With the active guidance and coöperation of the officers of instruction of the school, undergraduate students read and abstract the current dental and related literature for publication in this journal. Undergraduate participation in this program is urged not only to assure continuation of this worthy project but, more important, to acquaint the student intimately with the recent advances in dental science and to gain sound principles toward the proper evaluation of the current literature.

REGISTRATION OF STUDENT ORGANIZATIONS

Blanks for the registration of student organizations, other than those for which the responsibility is assumed by a faculty or department of instruction, may be obtained at the room assignment desk in the Office of the Registrar.

Such student organizations come under the jurisdiction of the Committee on Student Organizations of the University Council and may be granted the privileges of (1) the use of names in which the name of the University is embodied or suggested, and (2) the use of University rooms or grounds for meetings and bulletin boards for announcements, only if they have filed their registration blanks, furnishing the committee with lists of officers and other executive members, statements of purposes, copies of constitutions and bylaws, and the nature of any affiliation or connection with non-University organizations.

FACILITIES

LIBRARY

The Library occupies parts of the three lower floors in the College building. It is the seventh largest medical library in the country and the second in size among medical school libraries. It provides current literature (both books and journals) for faculty and students, and it aids in research through its own collections of current and historical works, and through interlibrary loans.

The Library contains approximately 140,000 volumes of books and journals, some 5,000 pamphlets and about 2,000 lantern slides on the history of medicine. Nearly 1,400 periodicals are received regularly. A trained library staff is available to aid students, faculty, and research workers in the schools of medicine, dentistry, nursing, while health and the hearitals of the Medical Center.

public health, and the hospitals of the Medical Center.

The Library is normally open:

Monday–Friday Saturday Sunday 8:30 A.M.—10:00 P.M. 9:00 A.M.— 6:00 P.M. 10.00 A.M.— 2:00 P.M.

University Libraries. The libraries on Morningside Heights are open to all students of dentistry, and books may be borrowed for home use. They include collections on anatomy, biochemistry, public health, nursing, and other subjects related to dentistry and supplement the special collections available in the College of Physicians and Surgeons and in the New York Academy of Medicine, Fifth Avenue at 103d Street. The library of the College of Pharmacy, 115 West 68th Street, is also open to students in the School of Dental and Oral Surgery.

UNIVERSITY PRIVILEGES

All students enrolled in the Dental School enjoy the privileges and facilities of the University campus, including access to the University Libraries, Gymnasium, and other activities.

University Gymnasium. The Gymnasium is situated on Morningside Heights and is open daily, except on Sundays and holidays. Students of the School of Dental and Oral Surgery may enjoy its privileges and have the use of the Gymnasium and baths and a private locker.

STUDENT HEALTH SERVICE

Daily office hours are held by the Student Health Service for sick students in Room 2-220 of the Vanderbilt Clinic. Members of the Health Service are available to attend ill students if they live near the Medical Center. Students requiring hospitalization will be taken care of either in the wards of the Medical Center under an insurance policy of the Associated Hospital Service of New York or elsewhere under the terms of its policy.

All entering students are required to have a dental examination in the School

and to have all necessary dental work completed prior to graduation.

RELIGIOUS LIFE

The life of the University community finds religious expression through St. Paul's Chapel and Earl Hall, and the ministry of the Chaplain and those associated with him in his work. The Visiting Chaplain of the University, the Rev. Louis Witherbee Pitt, is assisted by three Religious Counselors: the Rev. J. Edward Dirks, Counselor to Protestant students; the Rev. John K. Daly, Counselor to Roman Catholic students; and Rabbi Isidor B. Hoffman, Counselor to Jewish students.

Daily services are held in the Chapel, and students are urged to familiarize them-

selves with the schedules which are conveniently posted.

A number of student religious organizations are established to which the Chaplain and Counselors serve as advisers and with which students are cordially urged to affiliate themselves.

The Chaplain and the Counselors are especially eager to establish warm personal relations with students and to meet them in consultation, at the Chapel or in their offices in Earl Hall.

KING'S CROWN HOTEL

The King's Crown Hotel, 420 West 116th Street, in close proximity to the University, is owned by the University. It provides accommodations at reasonable rates, available for relatives and guests of members of the University community.

INTERNATIONAL HOUSE

International House, while not a University Residence Hall, is primarily a residence for students at Columbia University and other colleges and universities in New York City. It offers comfortable accommodations at reasonable rates. For further information, write directly to International House, 500 Riverside Drive, New York 27, N. Y.

MEDICAL CENTER BOOKSTORE

For the convenience of students and hospital staff, the University Bookstore maintains a branch in the College of Physicians and Surgeons, Room 2–463, Extension 7265. In addition to medical and dental textbooks, the store carries a full stock of other student equipment and supplies. Substantial savings are effected whenever discounts are permitted by the publishers and manufacturers. The store is open daily all year.

A GUIDE TO COLUMBIA UNIVERSITY

A description of the grounds and buildings of the University will be found in *A Guide to Columbia University*, published by Columbia University Press. The book also contains an account of the University's history and traditions.

FELLOWSHIPS, SCHOLARSHIPS, AND PRIZES

Recipients of University financial aid in excess of tuition, whether in the form of fellowships, scholarships, or other grants, will be asked to reside in the University Residence Halls unless exempted by the appropriate Dean with the approval of the President upon the presentation of adequate reasons for living elsewhere.

Two Ellis Fellowships are awarded annually to qualified graduates of any of the colleges of recognized rank in the state of Vermont. The holders of these fellowships may pursue resident graduate studies under any one of the graduate schools maintained by the University, and are eligible for reappointment for not more than two

additional years, with the proviso that a holder of the fellowship who is a student in medicine may be eligible for reappointment for not to exceed three additional years. The annual stipend is \$1,600. Applications should be submitted on or before March 1 on blanks to be filed with the Secretary of the University.

See also "Graduate Courses in the Basic Sciences" on page 15.

Three scholarships of tuition value in the School of Dental and Oral Surgery are awarded annually. These scholarships are open to students from outside the metropolitan area whose records of scholarship and special fitness for dentistry make them particularly desirable to the School.

The Van Woert Scholarship Fund was established by the alumni of the School of Dental and Oral Surgery in 1940. The award is given annually to a senior student in the dental school who stands high in scholastic attainments, in personal character, and in potentiality of being a credit to Columbia University and the dental profession.

A prize known as the Ella Maria Ewell Medal is awarded annually to that student of the School of Dental and Oral Surgery who, in the judgment of the Faculty, is most proficient in some subject of dentistry.

The Alumni Association makes an annual award of the Rowe-Wiberg Medal to the senior student who has shown the greatest proficiency in prosthetic dentistry.

An annual award is made by the Sigma Epsilon Delta Fraternity to the graduating student who, in the opinion of the Faculty, shows the greatest promise.

An annual prize for excellence in Pedodontics has been established by the Class

The staff of the Division of Operative Dentistry has established an annual prize for excellence in Operative Dentistry.

STUDENT AID

Loan funds are provided in limited amount for the assistance of students. Application for loans should be filed during the month preceding the session for which they are requested.

STUDENT EMPLOYMENT

Owing to the heavy schedule of the Dental School, it is difficult for dental students to undertake outside part-time work during the academic year and, so far as practical, other financial arrangements should be made.

THE ASSOCIATION OF THE ALUMNI OF THE SCHOOL OF DENTAL AND ORAL SURGERY

President, Morris Fierstein

President-elect, William Giblin

Vice-President, Nathaniel Diner

Vice-President, Nathaniel Diner

Secretary, Matthew Levin

Treasurer, John T. Flynn

Editor, Joel Friedman

Sentamin Kamrin

Any graduate, former student, officer of instruction, or administrative officer of the School of Dental and Oral Surgery is eligible to membership in the Association of the Alumni of the School of Dental and Oral Surgery of Columbia University.

OFFICERS OF INSTRUCTION

HAROLD ALEXANDER ABRAMSON Assistant Clinical Professor of Physiology A.B., Columbia, 1920; M.D., 1923.
VIRGINIA APGAR
EDMUND APPLEBAUM Assistant Professor of Dental Anatomy D.D.S., New York College of Dentistry, 1922.
HENRY ARTHUR BARTELS Assistant Professor of Dental Pathology B.S., Rhode Island State, 1917; B.S., Columbia, 1925; D.D.S., 1927.
ADOLPH BERGER
FRANK E. BEUBE
SAMUEL BIRENBACH
HAROLD WILLIAM BROWN
LESTER RICHARD CAHN
HANS THACHER CLARKE
LOUIS ALEXANDER COHN
WILFRED MONROE COPENHAVER
JOSEPH ANTHONY CUTTITA
SAMUEL RANDALL DETWILER
Moses Diamond
ALPHONSE RAYMOND DOCHEZ John E. Borne Professor of Medical and
A.B., Johns Hopkins, 1903; M.D., 1907; Sc.D., New York University, 1925; Yale, 1926; Western Reserve, 1931.
BION R. EAST Associate Dean (Dental and Oral Surgery); Executive Officer, Department of Dental and Oral Surgery; Professor of Dentistry V D.D.S., Michigan, 1908.
ADOLPH ELWYN
EARL THERON ENGLE

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HARRY STOLL MUSTARD
M.D., Medical College of the State of South Carolina, 1911; B.S., College of Charleston, 1914; LL.D., 1938.
IL.D., 1938. ALVINOS. NATHAN ASST CLINICAL PROFESSOR OF OFWISTRY JOHN LESTER NICKERSON ASSOciate Professor of Physiology B.A., Dalhousie, 1925; M.A., 1928; Ph.D., Princeton, 1935.
CARL REUBEN OMAN
coincel
DOUGLAS BURNETT PARKER
MAX A. PLEASURE
WILLARD COLE RAPPLEYE
Professor of Medical Economics A.B., Illinois, 1915; M.D., Harvard, 1918; A.M. (bon.), Yale, 1922; Sc.D., Trinity (Conn.), 1939.
WILLIAM MITCHELL ROGERS
WALTER STANTON ROOT
THEODOR ROSEBURY
Solomon Nathan Rosenstein . Associate Professor of Dentistry B.S., College of the City of New York, 1929; D.D.S., Columbia 1930. OF DENTISTRY SAUL SCHLUGER . Assistant Clinical Professor of Dentistry
SAUL SCHLUGER
JOSEPH SCHROFF
HARRY H. SHAPIRO Assistant Professor of Anatomy V
WILLIAM H. SILVERSTEIN Assistant Clinical Professor of Dentistry V D.D.S., Maryland, 1937.
GEORGE K. SMELSER
GILBERT PERCIVAL SMITH
HARRY PRATT SMITH Delafield Professor of Pathology V A.B., California, 1916; M.S., 1918; M.D., 1921.
PHILIP EDWARD SMITH
¹ On leave 1948-1949. ² On leave Winter Session.
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*	Leo Stern, Sr D.D.S., New FRANCES F Lewis RIDDELL D.D.S., Minn	York University, 1919 7. 57022 STOWE Lesota, 1916.	13. A	. Clinica SSISTANT P	l Professor of I nofessoe of i Professor of I	Dentistry√ DENTAL HYO Dentistry√
	DAVID TANCHE D.D.S., New	STER York University, 192		Clinica	al Professor of 1	Dentistry 🗸
		STON TOTTEN sylvania, 1926.			Professor of 1	Dentistry 🗸
	HARRY BENJAN B.S., Chicago	MIN VAN DYKE , 1918; Ph.D., 1921		. Hosack Pro	ofessor of Pharr	nacology 🗸
V		CH WALCOTT 933; Ph.D., Columb		. Assistant	Professor of Pi	hysiology
)	SHIH-CHUN W B.S., Yenchin 1940.	ANG	iping Union Me	. Associate dical College, 1	Professor of Pi	hysiology thwestern,
	Edward Victor A.B., Columb	or Zegarelli oia, 1934; D.D.S., 19		Associat 190, 1942.	e Professor of I	Dentistry
	DANIEL É. ZIS D.D.S., Mini	KIN			Professor of	Dentistry
	THEODORE AR	el, M.A., Ph.D.			tamen in Dental	Hanipar
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		en, B.S., D.D.S.				•
	BERT BALL	BERT AYERS, JR., A. V. V. A.O., D. O. TELSTONE, B.S., D.I	S		ASSISTANT	IN DENTIS
	Carlisle C. B	astian, D.D.S.			Lecturer in	Dentistry w
	Oscar Edwari	D BEDER, B.S., D.D.	.S		Instructor in	Dentistry V
	James Winsto Dolothy R Ignazio F. Bo	ON BENFIELD, A.B., BLITSTEN, SCARELLI, B.S., D.I	D.D.S	NSTRUCTO	R Assistant in	Dentistry /
	Stanislaw H	. Brzustowicz, B.	.S., D.D.S.		Assistant in	Dentistry /
	Jack Budowsi	к ч, D.D.S			Instructor in	Dentistry V
		Bundrant, D.D.S				
	Edward A. C.	AIN, B.S., D.D.S. J. CAVA, B.S. LITON, B.S., D.D.S.	a 5		Instructor in	Dentistry /
	Ada R. Clari	к, B.S., А.М., Ph.I	D .		Associate in Ba	cteriology 🗸
	JOSEPH N. CO CEORGE 8	LANERI, A.B., D.D. CROZAT, D.O. DAGLIAN, B.S., D.I	S	· · · · · · · · · · · · · · · · · · ·	Assistant in	Dentistry DENTISTA
*	STOLL R.D.H. B.S. M.A. Eo.D.	COLUMBIA COLUMBIA, COLUMBIA, COLUMBIA,				
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	DENTAL AND ORA	LSURGERY	35
	Robert Cyril Devine, B.S., D.D.S.	Instructor in Dent	istry
	Frank E. Dixon, B.A., B.S., D.D.S.	Assistant in Dent	istry /
,	DAVID A DEAGLEF, B.S., D.D.S. JOHN. J. DOLLE, B.S., D.D.S. SAMUEL BERGER DRELLICH, D.D.S.	. Research Assistant in Dent	istry -
	Jacob Feinman, B.S., LL.B., D.D.S.	Assistant in Dent Assistant in Dent DEA Instructor in Dent	istry
V	JOSEPH E. FIASCONARO, B.S., D.D.S	Assistant in Dent Research Assistant in Dent	istry /
	JACOB S. FRIEDLANDER, D.D.S.	Instructor in Dent	istry
	HERBERT PHILIP FRITZ, D.D.S	Instructor in Dent INST. IN AN Instructor in Anai	stry 4 romy
	Louis Haase, D.D.S	Assistant in Dent Assistant in DE NTA Instructor in Dental Tec	istry L HYGIENF hniQUEV
	ROBERT EDWARD HERLANDS, A.B., D.D.S.		istry
	GEORGE HINDELS, D.D.S.	Instructor in Deni	,
	Leonard Hirschfeld, A.B., D.D.S.	Assistant in Dent	istry 🗸
	JOHN D. HOGAN, B.S., D.D.S /ASTRO	cror in Assistant in Dent	tistry
	Nicholas Ippolito, D.D.S.	Assistant in Dent	tistry -
	James Jay, D.D.S	Instructor in Dent	tistry 🖟
	Joseph E. Johnson, D.D.S.	Lecturer in Dent	tistry ~
	SOLOMON L. KATZ, D.D.S.	Research Assistant in Deni	tistry 🗸
	Morris Kavelle, B.S., D.D.S.	Instructor in Deni	tistry 🗸
	MARY JANE KELLOGG, R.D.H. Junks.	Assistant in Dental Hy	jene
	BERTRAM KLATSKIN, A.B., D.D.S. STANLEY L. LANE WILLIAM H. LEAK, D.D.S. EVALD LINDER JULIUS K. LITTMAN, M.D.	Assistant in Denti /NST /N DE e Museum, Dental and Oral Sun IN DENTAL RADIOLOGY TEC Instructor in Anai	gery au EV
	Joseph Luban, B.S., D.D.S.	Research Assistant in Deni	tistry 🗸
	John J. Lucca, A.B., D.D.S.	Research Assistant in Deni	tistry V
	HARRIET G. McCormick, A.M., Ph.D.	Lecturer in Dental Hyg	giene 🗸
	CLARE K. MADDEN, D.D.S.	Instructor in Deni	tistry
5. 0. 0.	, N.Y.U., 1936 , N.Y.U., 1939 S. COLUMBIA, 1941	Glasotone 35- Hortherett. n: 0 Henry J.	n. 1933

IRWIN D. MANDEL, B.S., D.D.S Research Assistant in Dentistry
ARTHUR H. MERRITT, D.D.S., M.S., Sc.D Lecturer in Dentistry
John V. Mershon, D.D.S., D.Sc. (hon.) Lecturer in Dentistry
HENRY MILCH, A.B., M.D
ALVIN S. NATHAN, D.D.S., B.S. in Ed., A.M Instructor in Dentistry
STANLEY F. NIEF, A.B., D.D.S
ARMAND M. OPPENHEIMER, A.B., B.S., D.D.S. CLIRIAM C. PRITCHARD, B.A., M.A., PH.Q. HOWARD J. ROGERS Instructor in Dental Technic
Fred Rothenberg, D.M.D., D.D.S
WILLIAM J. SAVOY, B.S., D.D.S Instructor in Dentistry
Bobb Schaeffer, A.B., A.M., Ph.D Lecturer in Dentistry V
Louis Laszlo Schwartz, B.S., D.D.S
Boaz Shattan, A.B., D.D.S
HAROLD SHERMAN, B.S., D.D.S
HERBERT F. SILVERS, B.S., D.D.S. Research Associate in Dentistry FRANKLIN A. SQUIRES, D.D.S. GEORGE STEIN, M.D., D.M.D. Research Associate in Dentistry
LEO STERN, JR., A.B., D.D.S
WALTER W. STEVENS, D.D.S
FERDINAND A. STEWART, JR., A.B., D.D.S
Frances Agnes Stoll, R.D.H., B.S., A.M. C.D. Instructor in Dental Hygiene
HARRY STRUSSER, D.D.S
Benjamin Tenenbaum, B.S., D.D.S. Research Assistant in Dentistry
WILLIAM A. THEMANN, D.D.S
¹ Joseph J. C. Thomson, D.D.S Assistant in Dentistry &
FERDINAND A. TUOTI, D.M.D
ADELWNE P. URTNOWSKI, R.D.H. Assistant in Dental Hygiene
WILLIAM A. VERLIN, A.B., D.D.S Instructor in Dentistry /
CLIFFORD L. WHITMAN, D.D.S
1 On leave 1948-1949. W will add to come

Glenn H. Whitson, D.D.S	Instructor in Dentistry 😿
Frederick F. Yonkman, A.B., Ph.D., M.D	Lecturer in Pharmacology

CLINICAL ASSISTANTS

AARON L. ACKERMAN, D.D.S., M.P.H.	V Edward S. Luboja, D.D.S.	
' Ralph Becker, B.S., D.D.S.	Melvin Morris, B.S., A.M., D.D.S.	
' Harold E. Brennan, D.D.S.	✓ DAVID MOSSBERG, D.D.S.	
John J. Doler, B.S., D.D.S.	✓ Henry I. Nahoum, A.B., D.D.S.	
HENRY ELLISON, B.S., D.D.S., M.S.P.H.	V NATHANIEL RATTNER, D.D.S.	
STANLEY S. HELLER, B.S., D.D.S.	Julian Schroff, B.S., D.D.S.	
ELLEN N. HOSIOSKY, D.M.D., D.H.,	Paul C. Sexauer, B.S., D.D.S.	
D.D.S.	✓ Irwin Tekulsky, D.D.S.	

HAROLD C. KILPATRICK, D.D.S.

Austin H. Kutscher, A.B., D.D.S. Alexander Leff, D.D.S.

SAMUEL L. LIFTON, A.B., D.D.S.

VINCENT D. VARALLO, B.S., D.D.S. STANLEY W. VOGEL, D.D.S.

LESTER W. WINTER, B.S., A.M., D.D.S.

DAVID ZEISLER, B.S., D.D.S.

PRESBYTERIAN HOSPITAL DENTAL SERVICE

Samuel Birenbach, Director

Attending Dental Surgeons

Adolph Berger

Houghton Holliday

Carl R. Oman

Carl R. Oman

Carl P. Smith

Carl P. Smith

Associate Attending Dental Surgeons

Lester R. Cahn Irvin L. Hunt, Jr. Solomon N. Rosenstein Joseph Schroff

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OSCAR E. BEDER WILLIAM J. SAVOY
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PRESBYTERIAN HOSPITAL ORAL SURGERY SERVICE

MAURICE J. HICKEY, D.M.D., M.D., Assistant Attending Surgeon Stanley Lane, ma., D. W. S. "

corpo

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REGISTER OF STUDENTS

GRADUATES—CLASS OF JUNE, 1947

Armao, Thomas Anthony Manhattan	Brooklyn, N.Y.	Levin, Alfred W. New Yor New York University	k City
Darling, Maus Vedder A.B., Johns Hopkins, 1936	Stamford, Conn.	Levine, Wilfred New Yor New York University	k City
D'Errico, Louis John A.B., Columbia, 1944	Flushing, N.Y.	Luboja, Edward Stephen New Yor Fordham	k City
Ferber, Irwin New York University	New York City	Lucca, John James Brooklyn, A.B., New York University, 1941	N.Y.
Field, Jesse Waldron A.B., Gettysburg, 1936	New York City	Murray, John Joseph New Yor Fordham	
Fletcher, Roland Anderson		Nicoletti, Leonard John Weehawken	, N.J.
	It. Vernon, N.Y.	A.B., Columbia, 1943	
Amherst		Oberman, Philip New Yor	k City
Yale		New York University	
Golub, Leo Joseph	New York City	Rackson, Chester Bert Elmburst,	N.Y.
A.B., Columbia, 1943		B.S., Queens, 1944	NIV
Halperin, Arnold	New York City	Raebeck, William, Jr. Belle Harbor,	14.1.
B.S., New York University		Colgate Remnick, Herbert Stanley Paterson,	NII
Hayward, Donald Edwin, Jr.		B.S., New York University, 1944	. 14.).
NI NZI- TI-' '-	Brooklyn, N.Y.	Rifkin, Irving Los Angeles,	Calif
New York University	N. 11 0	A.B., New York University, 1943	Calif.
Heaphy, Charles Francis Fordham	Norwalk, Conn.	Russell, Raymond Homer Ilion,	N.Y.
	T1 1 3737	Union	
Heyen, Aloys Diedrich Franklin and Marshall	Lynbrook, N.Y.	Salem, James Joseph Brooklyn,	N.Y.
Hoelzer, Robert Frederick	77.11' 37.77	Fordham	
A.B., Colgate, 1946	Hollis, N.Y.	Santeramo, Eugene Frank Jamaica, Oueens	N.Y.
Hosiosky, Ellen N.	New York City	Scheiner, Herman Isaac New Yor	rk City
D.M.D., Basle (Switzerlan		B.S., New York University, 1944	it City
Jaxheimer, David Paul	Freeport, N.Y.	Slagle, Charles Joseph Port Chester,	NY.
Muhlenberg		New York University	
Kafka, Betty	Brooklyn, N.Y.	Stuart, Robert Sterling Portland,	Maine
A.B., Brooklyn, 1943		A.B., Bowdoin, 1944	
Kelley, Edward Joseph, Jr.	Norwalk, Conn.	Telsey, Daubert Long Island City,	N.Y.
Fordham		B.S., New York University, 1945	
Kovarsky, Leonard	Passaic, N.J.	Thomson, Joseph John Clayton	
Ohio		North Berger	ı, N.J.
New York University		St. Peter's (N.J.)	
Lane, John O'Gorman, Jr. A.B., Columbia, 1947	New York City	Walsh, Robert Francis Jamaica, Fordham	N.Y.

SEPTEMBER 11, 1947 TO JUNE 1, 1948

FOURTH YEAR-CLASS C	F JUNE, 1948		kson Heights, N.Y.
Arslan, Paul A.B., New York Universi Auerbach, Gabriel Irving	Springfield Mass	St. John's (N.Y.) Cava, Nicholas Joseph Long Island	Bethpage, N.Y.
B.S., Massachusetts State	, 1941	Deesen, Kenneth Charles Oueens	Glendale, N.Y.
Auslander, Irwin Howard New York University	Brooklyn, N.Y.	Massachusetts Inst. of Te	
Baurmash, Harold Daniel	New York City	Delasho, James William	Yonkers, N.Y.
B.S., New York Universit Blanco-Dalmau, Luis	y, 1945 Rio Piedras, P.R.	B.S., Manhattan, 1943 Derevlany, Michael John A.B., Columbia, 1944.	Whitestone, N.Y.
University of Puerto Rico Blugerman, John Mark	Brooklyn, N.Y.	Disick, Donald Brooklyn	Brooklyn, N.Y.
A.B., Columbia, 1944 Breheny, John Martin Fordham	New York City	Engel, Walter Frederick, Jr. Wesleyan	Brooklyn, N.Y.

Brooklyn, N. Y. Scrivani, Steven Silvio New York City Englander, Harold Robert Brooklyn College of the City of New York New York City Shapiro, Sidney Washington Univ. (Mo.) Hofstra Fenning, Howard Rassler New York University Middletown, N.Y. Stein, Joseph Robert New York City A.B., Lafayette, 1942 College of the City of New York Friedman, Jay Wolfe Hempstead, N.Y. New York University North Carolina Cornell University Goldwasser, Joseph Max Brooklyn, N.Y. Yale University Brooklyn New York City Stern, Eli Sheldon Union Halla, Paul Emil New York City New York University New York University Haufe, Thomas Robert Columbia New York City Stern, Peter Edward New York City Fordham Columbia Swanstrom, Ake Adolph Emanuei Cornell Ostersund, Sweden Jurka, Charles Edward L.D.S., Swedish Dental Inst. (Stockholm), Croton-on-Hudson, N.Y. Hamilton 1931 Providence, R.I. Uccellani, Ennio Louis New York City Kantorowitz, Leo College of the City of New York B.S., Providence, 1944 New York City Klein, Harold Jacques Cornell A.B., New York University, 1943 San Diego, Calif. Zinn, Arthur, Jr. Malden, Mass. Klickstein, Melvin San Diego State Massachusetts State Notre Dame Trinity (Conn.) Korniewicz, John Alexander THIRD YEAR-CLASS OF JUNE, 1949 Brooklyn, N.Y. St. Francis College (N.Y.) Andreozzi, Armando Edmond Providence, R. I. Holy Cross Lazoff, Arthur New York City Brown B.S., College of the City of New York, Tufts New York City 1944 Berg, Marc Louis Lewis, Robert Mervin Newark, N.J. Cornell New York City Rutgers Breuer, Jack M. A.B., Columbia, 1946 Loeb, Morton Samuel Laurelton, N.Y. Tarrytown, N. Y. Oueens Cook, Dana Ellsworth Massachusetts Institute of Technology Colgate McGann, Donald Michael New York City Colgate A.B., St. Peter's (N.J.), 1943 Elisworth, Pa. Docktor, John Paul Maillard, Gene Charles Ridgewood, N.Y. B.S., Pittsburgh, 1941 Fordham M.D., George Washington, 1943 New York University Freedman, Leonard Irving Mand, Stanley Mervin New York University Brooklyn, N.Y. Cedarhurst, N. Y. Wisconsin Marmer, David New York City New York University . A.B., New York University, 1944 New York City John, Hedda Maria Mehta, Fali Sarabji M.D., Prague (Czechoslovakia), 1925 Bombay, India L.D.Sc., Nair (India), 1947 D.D.S., Prague (Czechoslovakia), 1933 arlan, Frances Ross New York City Miller, Harold New York City Karlan, Frances Ross B.S., Long Island, 1939 B.S., Massachusetts Inst. Tech., 1942 M.S., New York University, 1942 Brooklyn, N. Y. Kurzius, George A.B., New York University, 1941 Pino, Rudolph Victor Brooklyn, N.Y. B.S., Fordham, 1943 Portale, Joseph Sebastian New York City Levin, Alex Elihu Ridgewood, N.J. George Washington McAllister, Charles Bruce, Jr. Villanova Elmhurst, N. Y. Prince, Ivin Bittker New York City A.B., New York University, 1943 B.S., Fordham, 1944 New York City Rasi, Howard Blades Brooklyn, N.Y. Popper, Alfred M.D., Hamburg (Germany), A.B., Cornell, 1939 1934 New York City M.D., New York Medical College, 1943 Prata, Raymond Louis Rebhun, Lionel Earl New York City B.S., Fordham, 1943 College of the City of New York Richmond, Julius Kenrick Makepeace Georgetown, B. G. Robinson, Irwin Schnoll

Jackson Heights, N.Y.

B.S., College of the City of New York, 1944

Queens College (British Guiana)

Columbia

Russo, Michael Archangel

B.S., Fordham, 1942

A.B., Brooklyn, 1939

Savad, Sol

Malone, N. Y. Schwartz, Stanley Irving Poughkeepsie, N. Y. Yanowitz, Bernard St. Lawrence A.B., Bard, 1945 Shapiro, Morton Louis Broo B.S., Willamette University, 1947 Brooklyn, N. Y. SECOND YEAR-CLASS OF JUNE, 1950 Sherr, Leonard Allen New York City Barlow, Carl Morton New York City College of the City of New York A.B., New York University, 1946 Wisconsin Buslowe, Louis New Haven, Conn. Tansky, Joseph Brooklyn, N. Y. A.B., Yale, 1938 Brooklyn Citron, Hyman Allan New York City Tiernan, Vincent Clifford B.S., Manhattan, 1942 New York City B.S., College of the City of New York, 1946 Dowling, James Glenville Fairfield, Conn. Vairo, George Gerard New York City Fordham B.S., Fordham, 1942 St. Lawrence Vogel, Howard Bernard New York City Fitz-Gibbon, Francis John Holyoke, Mass. College of the City of New York Providence College Bates Furgang, Murray Pelham Manor, N. Y. Rochester College of the City of New York Wannen, John Richard Forest Hills, N. Y. St. John's (N. Y.) Boston Fordham Middlebury Paris Landa New York University Tufts Harnett, William Watkins Englewood, N. J. Wiener, Jack Joseph Brooklyn, N. Y. Detroit Brooklyn Hanover Wille, Carl Ludwig Stewart Manor, N. Y. Columbia B.S., Fordham, 1936 Harris, Stanford New York City College of the City of New York FIRST YEAR-CLASS OF JUNE, 1951 Gonzaga University University of Washington Adams, Roger Pettingell Westbrook, Maine Henrich, Edwin John New Rochelle, N. Y. B.S. Bowdoin, 1946 New York University Bruder, George Allan New York City Buffalo B.S. College of the City of New York, 1945 Cornell Cohen, Eugene A. Brooklyn, N. Y. Jacklyn, Herbert Barre New York City Brooklyn College of the City of New York Duprey, Leon Perlie Chazy, N. Y. Jenkins, Cornelius Willis New York City A.B., Oberlin, 1947 A.B., Lincoln, 1946 Friedman, Edward U. Hempstead, N. Y. Jussim, Julius New York City Mt. Union B.S., College of the City of New York, 1938 New York University Lemrow, Maynard Wesley Goulian, Dicran, Jr. Stratford, Conn. Weehawken, N. I. Westminster (Pa.) Columbia Bethany (W. Va.) Greenier, Robert David Orangeburg, N. Y. Levine, Charles Lester New York City B.S., Fordham, 1941 College of the City of New York Griffin, Edward Mitchell Mt. Vernon, N. Y. Wisconsin A.B., Dartmouth, 1947 Ohio New York City Hershey, Robert Michigan B.S., College of the City of New York, 1947 Loeffler, George Henry Houser, William Wyman Jamaica, N. Y. Yorkville, N. Y. Manhattan College Colgate McManus, Philip Patrick, Jr. New York City Kutner, Philip Corona, N. Y. A.B., Illinois, 1942 B.S. cum laude, College of the City of New Menken, George York, 1944 Jackson Heights, N. Y. Cornell McMahon, Donald Mt. Vernon, N. Y. B.S., Randolph-Macon, 1943 Queens College Nebel, Arthur John, Jr. Elizabeth, N. J. Machenberg, Stanley Ellis Stamford, Conn. Centre College B.S., Connecticut, 1943 Columbia Mellow, Emil Anthony Old Forge, Pa. O'Loughlin, John Joseph Scranton Howard Beach, N. Y. Moschella, Joseph Staten Island, N. Y. B.S., Fordham, 1946 A.B., Norwich, 1937 Pomerantz, Alan Saul Brooklyn, N. Y. Murakami, Kenneth Kiyoshi Honolulu, T. H. A.B., Brown, 1946 Hawaii

Elizabeth, N. J.

Brooklyn, N. Y.

Murphy, James Gerard

Murray, James Francis

A.B. cum laude, Notre Dame, 1942

Newark

Arlington, N. J.

New York City

O'Connor, James Thomas Brooklyn, N. Y. Orthodontics A.B., St. Peter's (N. J.), 1947 Ash, Arthur Seymour Mt. Vernon, N. Y. O'Neill, Frank Deveraux Carle Place, N. Y. D.D.S., New York University, 1942 B.S., New York University, 1940 B.S., College of the City of New York, 1939 A.M., New York University, 1942 Ballin, Bert New York City Pecora, Francis Nicholas New York City D.D.S., Columbia, 1946 A.B., Fordham, 1943 A.B., Oberlin, 1943 Platzer, Kenneth Martin Brooklyn, N. Y. Berman, Maurice S. Capetown, South Africa A.B., Brooklyn, 1942 L.D.S., R.C.S., Royal Dental Hospital of Rivera, Victor M. Aibonito, P. R. London (England), 1939 Louisiana State Blatman, Daniel Great Neck, N. Y. Tennessee D.D.S., Columbia, 1945 Seidenberg, Leonard Syracuse, N. Y. Browe, Curtis R. Millburn, N. J. Syracuse D.D.S., Pennsylvania, 1944 Selinger, Jerome New Brunswick, N. J. Cohen, M. Michael Elizabeth, N. J. Rutgers D.D.S., Columbia, 1945 Silverstein, Harold Brooklyn, N. Y. B.S., Rutgers, 1938 A.B., Brooklyn, 1947 Cohen, Milton Storella, John Alfonse Boston, Mass. Brooklyn, N. Y. B.S., Massachusetts State, 1947 D.D.S., New York University, 1939 Tolmach, Herbert A.B., New York University, 1935 New York City A.B., New York University, 1947 Cole, Robert Merton Tarrytown, N. Y. D.D.S., Columbia, 1944 Tripodi, Joseph John Tonawanda, N. Y. B.S., St. Bonaventure, 1945 A.B., Columbia, 1942 M.S., St. Bonaventure, 1947 Crisci, Custode A. Philadelphia, Pa. Worboys, Wilson Thomas New York City D.D.S., Temple, 1942 A.B., Houghton, 1940 A.B., Notre Dame, 1938 Fee, Neal Richard Mooers, N. Y. POSTGRADUATE STUDENTS D.D.S., Pennsylvania, 1944 CANDIDATES FOR THE CERTIFICATE Groher, David Louis New Canaan, Conn. OF TRAINING D.D.S., Indiana, 1942 Jaffe, Alfred Newport, R. I. General Restorative Dentistry D.D.S., Columbia, 1943 Cassland, Arne Lennart Malmo, Sweden B.S., Columbia, 1943 University School of Dental Surgery, Stock-Kanter, Frank Baltimore, Md. holm (Sweden) D.D.S., Pennsylvania, 1939 Drewes, Julius Martin Falun, Sweden Kaplan, Jacob Israel Brooklyn, N. Y. Institute of Dentistry, Stockholm (Sweden) D.D.S., Columbia, 1943 Hochberg, Joseph Aaron Mt. Vernon, N. Y. A.B., New York University, 1938 D.M.D., Louisville, 1945 Johansson, Gosta Sven Karp, Alfred Jersey City, N. J. Falkoping, Sweden D.D.S., Columbia, 1943 Uppsala (Sweden) Kresky, Leo Samuel Brooklyn, N. Y. Caroline Medico-Surgical Institute (Sweden) D.M.D., Harvard, 1943 Swedish Dental Institute, Stockholm A.B., Colby, 1939 (Sweden) Levy, Henry Pershing Brooklyn, N. Y. Kaplan, Joseph Los Angeles, Calif. D.D.S., Pennsylvania, 1942 D.D.S., Pennsylvania, 1934 A.B., New York University, 1937 Koutsonas, George Michael Salonika, Greece London, George Julius Brooklyn, N. Y. Dental School of National and Kapodistrian D.D.S., Illinois, 1942 University, Athens (Greece) B.S., Illinois, 1940 Ovadia, Andrea Kamal Rome, Italy A.B., New York University, 1937 M.D., Rome (Italy), 1927 Madden, Robert Francis Scarsdale, N. Y. D.D.S., Milan (Italy), 1930 D.D.S., Columbia, 1945 Elizabeth, N. J. Oral Surgery Paskow, Herbert D.D.S., Pennsylvania, 1945 Chang, Raymond Hsi-Tseh Chengtu, China D.D.S., West China Union (China), 1939 A.B., Pennsylvania, 1943 Richardson, Henry Brown D.M.D., Tufts, 1944 Lowville, N. Y. Lewin-Epstein, Jacob Jerusalem, Palestine D.D.S., Pennsylvania, 1944 A.B., Cornell, 1941 Moshman, Howard Benjamin Brooklyn, N. Y. Saxon, Alfred Elliot New York City D.D.S., New York University, 1945

B.S., College of the City of New York, 1941

San Francisco, Calif.

Rogers; Nathan, Jr.

D.D.S., California, 1943

B.S., California, 1943

A.B., Stanford, 1937

D.D.S., Columbia, 1943

D.D.S., Pennsylvania, 1940

D.D.S., Northwestern, 1944

Perth Amboy, N. J.

Louisville, Ohio

Seemann, Julius Anthony

Tate, James Carney

Teltsch, Edward Emery D.D.S., Buffalo, 1936	Brooklyn, N. Y.		Esposito, Salvatore Joseph D.D.S., Marquette, 1943	New York City
A.B., Columbia, 1932 Virkler, Lyndon Mark D.M.D., Harvard, 1941	Castorland, N. Y.	,	D.D.S., Washington (Mo.	Newark, N. J.
A.B., Cornell, 1937 Wood, Max Grogan D.D.S., Texas, 1932	Littlefield, Texas	,	A.B., Columbia, 1943 Raebeck, William, Jr. B. D.D.S., Columbia, 1947	elle Harbor, N. Y.
Periodontol	ogy		Smith, David Joseph D.D.S., Columbia, 1944	Brooklyn, N. Y.
Cohen, Samuel L.	East Orange, N. J.		Weissman, Bertram	New York City
D.D.S., Georgetown, 193 A.D., Uppsala, 1933 Golomb, Ida M.	,		D.D.S., Columbia, 1946 B.S., College of the City o	f New York, 1946
D.D.S., New York Unive			SUMMARY	
B.S., New York Universit Gottsegen, Robert D.D.S., Columbia, 1943	у, 1938		Graduates—June, 1947 Fourth Year—June, 1948	
A.B., Michigan, 1939 Levine, Seymour William	Brooklyn, N. Y.		Third Year-June, 1949	15
D.D.S., New York Unive	ersity, 1944		Second Year-June, 1950	
Sackler, Alvin Meyer D.D.S., New York University			First Year-June, 1951	
B.S., New York Universit			Candidates for Certificates in	
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Di Salvo, Nicholas Armand D.D.S., Columbia, 1945	New York City			
B.S., College of the City	of New York, 1942		Total	213

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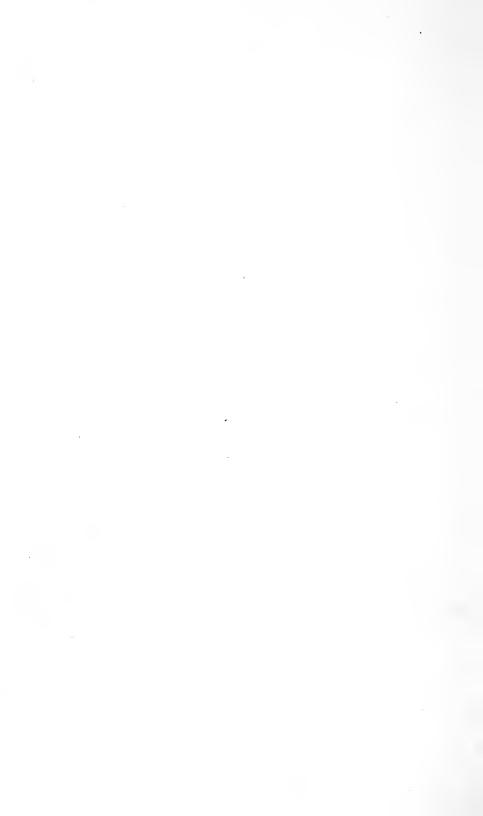
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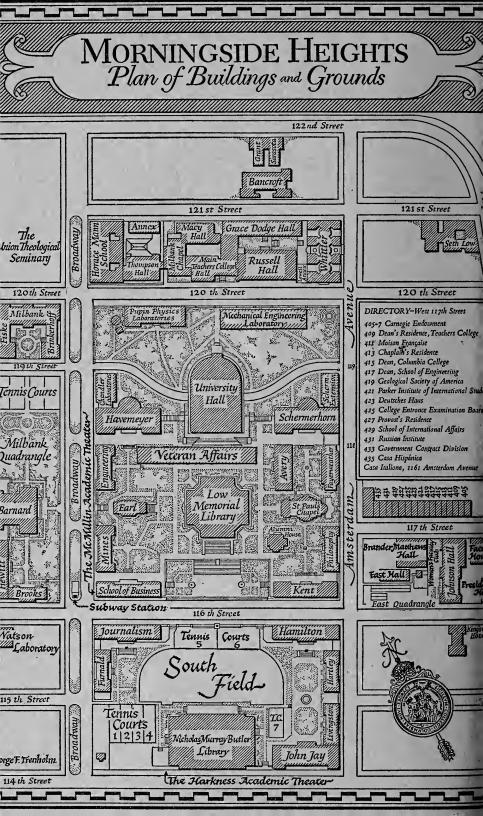
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- 1. Babies Hospital
- 2. Presbyterian Hospital Sloane Hospital
- 3. Harkness Pavilion
- 4. Power plant
- 5. College of Physicians and Surgeons
- 6. Vanderbilt Clinic
 - School of Dental and Oral Surgery
- Washington Heights Health and Teaching Center, N. Y. City Dept. of Health School of Public Health
- 8. Institute of Ophthalmology

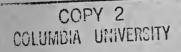
- 9. Maxwell Hall
- 10. Neurological Institute
- 11. N. Y. State Psychiatric Institute and Hospital
- 12. Bard Hall
- 13, 16. Storage
- 14. Shops
- 15. Housing
- Francis Delafield Hospital (under construction), N. Y. City Dept. of Hospitals
- 18. Edward S. Harkness Memorial Hall



COLUMBIA UNIVERSITY MATION BULLETIN OF INFORMATION

Forty-ninth Series, No. 38

October 1, 1949



HEALTH SCIENCES ANNOUNCEMENT OF THE

SCHOOL OF DENTAL AND ORAL SURGERY

OF THE

FACULTY OF MEDICINE

1949-1950

COLUMBIA-PRESBYTERIAN MEDICAL CENTER 630 WEST 168TH STREET · NEW YORK 32, N.Y.

Columbia University Bulletin of Information

Forty-ninth Series, No. 38

October 1, 1949

Issued at Columbia University, Morningside Heights, New York 27, N. Y., weekly from January for forty consecutive issues. Re-entered as second-class matter February 7, 1949, at the Post Office at New York, N. Y., under the Act of August 24, 1912. Acceptance for mailing at a special rate of postage provided for in Section 1103, Act of October 3, 1917, authorized.

The series includes the Report of the President to the Trustees, and the Announcements of the several Colleges and Schools, relating to the work of the next year. These are made as accurate as possible, but the right is reserved to make changes in detail as circumstances require. The current number of any of these Announcements will be sent upon application to the Office of University Admissions.

C. U. P. 9,500-1949.

COMMUNICATIONS

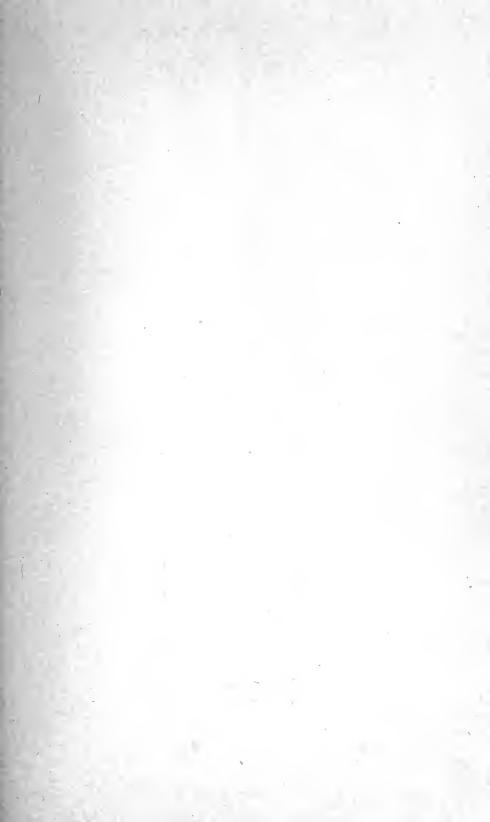
All communications regarding the School of Dental and Oral Surgery, application for admission, and appointments for personal interviews should be addressed to the School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y.; telephone Wadsworth 3–2500.

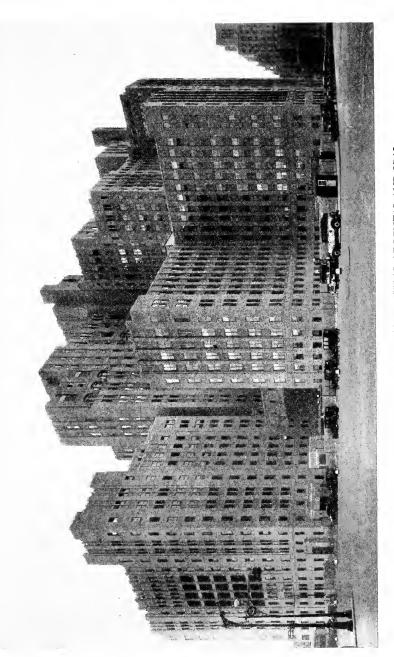
ANNOUNCEMENTS

The Announcements of each College or School and of the Summer Session may be obtained without charge from the Office of University Admissions.

Letters requesting more detailed information than is contained in this Announcement, and all correspondence regarding admission, should be addressed to the Dean, School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y.

PRINTED FOR THE UNIVERSITY BY COLUMBIA UNIVERSITY PRESS





THE MEDICAL CENTER, INCLUDING THE SCHOOL OF DENTAL AND ORAL SURGERY WING AT THE RIGHT

Columbia University in the City of New York

ANNOUNCEMENT OF THE

SCHOOL OF DENTAL AND ORAL SURGERY

OF THE

FACULTY OF MEDICINE



1949-1950

COLUMBIA-PRESBYTERIAN MEDICAL CENTER
630 WEST 168TH STREET
NEW YORK 32, N.Y.

FORM OF BEQUEST

To the Trustees of Columbia University in the City of New York I give and bequeath the sum of \$...., to be used by said Trustees for the uses and purposes of said Corporation.

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CONDENSED ACADEMIC CALENDAR

1949

September 8 Thursday, to September 10, Saturday. Registration, including payment of fees.

September 12 Monday. Classes begin.

November 8 Tuesday. Election Day. Holiday.

November 24 Thursday. Thanksgiving Day. Holiday.

November 26 Saturday. End of first trimester.

November 28 Monday. Beginning of second trimester.

December 21 Wednesday, to

1950

January 3 Tuesday, inclusive. Christmas holidays.

February 22 Wednesday. Washington's Birthday. Holiday.

February 25 Saturday. End of second trimester.

February 27 Monday. Beginning of third trimester.

March I Wednesday. Last day for filing application for degrees.

April 2 Sunday, to April 9, Sunday, inclusive. Easter holidays.

May 20 Saturday. Last day of classes.

May 22 Monday, to May 27, Saturday. Final examinations.

May 30 Tuesday. Memorial Day. Holiday.

June 8 Thursday. Conferring of degrees.

FACULTY OF MEDICINE

OFFICERS OF THE FACULTY

THE FACULTY

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1 On leave July 1 to September 30, 1949.

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HOUGHTON HOLLIDAY

CLAUS W. JUNGEBLUT YALE KNEELAND, JR.

NOLAN D. C. LEWIS

GEORGE H. HUMPHREYS, II

² On leave from July 1 to December 31, 1949.

³ On leave Winter Session.

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THE SCHOOL OF DENTAL AND ORAL SURGERY

Columbia University was founded in 1754 as King's College by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The Revolutionary War interrupted its active work, but in 1784 it was reopened as Columbia College. In 1912 the title was changed to Columbia University in the City of New York.

From its inception, the program of dental education in Columbia University has been fostered by and associated with the University's School of Medicine. The Faculty of Medicine at its stated meetings of November and December, 1915, recommended to the Trustees that a Dental School be established in the University on

"University Lines."

The President of the University in his annual report of 1916 informed the Trustees that "during the year a group of men have come forward with a well-supported proposal that there be established in connection with the Medical School, a school for the training of dental surgeons." The President also reported that "the project was carefully formulated and presented to the Medical Faculty and received the formal approval of that Faculty and later of the Trustees."

In May, 1916, the University issued a pamphlet entitled A Dental School on University Lines. In this pamphlet the University stated its intent to establish a school of dentistry in affiliation and coördination with the School of Medicine. The pamphlet's introductory statement outlined the University's policy for dental education

which has been consistently followed:

Dentistry and Dental Education are on the threshold of extraordinary development but are unable to take advantage of their opportunities because of the traditional separation of dentistry and medicine. Dentistry has been shown by recent investigations and research to be logically a branch of general medicine.

In the fall of 1917 Mr. James N. Jarvie gave a substantial sum to a fund "to found and maintain the proposed dental school of the University, described in the pamphlet entitled *A Dental School on University Lines* issued by Columbia University, May 1016."

In September, 1916, students in dentistry were admitted to courses in Columbia University at the School of Medicine. On March 5, 1917, the Trustees of the University established a school of dentistry as of September 27, 1916, and from that date the School became an integral part of the University. On March 1, 1920, the dental building adjacent to the School of Medicine and Vanderbilt Clinic was finished and

assigned to the use of this school.

On July 1, 1923, the College of Dental and Oral Surgery of New York (organized in 1905) was merged with the School of Dentistry, and the combined institutions named the School of Dental and Oral Surgery of Columbia University. By this merger Columbia acquired two large buildings, at 302–306 East 35th Street and 309–315 East 34th Street, in which the School was housed up to the time of moving into the Medical Center.

The merging of the schools did not alter the University's policy for dental education. In the 1923–1924 Announcement of the School of Dental and Oral Surgery, this policy was reaffirmed by the statement, "It is the purpose of the School of Dental and Oral Surgery to combine in the highest degree practicable a sound knowledge of the fundamentals of medicine with adequate training in the technical procedures of dental science and arts."

In September, 1928, the School was moved to the Columbia University-Presbyterian Hospital Medical Center. The dental department of the School occupies the three upper floors of the Vanderbilt Clinic wing, a net floor area of 40,000 square feet. The fundamental science subjects, which are given to both dental and medical students, are taught in the adjoining College of Physicians and Surgeons, the corridors of the two schools being continuous. In adjacent wings, the halls of which are also continuous with those of the School, the wards and outpatient departments of the Presbyterian and associated hospitals are located, thus giving the closest possible contact and association with all branches of health service. The Dental School clinic includes as one of its functions the dental care of the patients of the Medical Center hospitals.

In order to strengthen the instruction of dental and medical students and to fulfill a further step in the integration of dental education and research with the medical program at the Columbia-Presbyterian Medical Center which was visualized when the Dental School was made a part of the Center in 1928, the Faculties of the two schools were merged July 1, 1945. This Faculty is responsible for the educational programs in Medicine, Dentistry, Public Health, Nursing, Graduate and Postgraduate Medical and Dental Education. A Committee on Dental Education, established by University statute, of which a majority shall be from the Department of Dental and Oral Surgery and of which the Associate Dean for Dental and Oral Surgery shall be the chairman, will initiate recommendations to the Faculty on the qualifications and admission requirements for dental students, the curriculum of instruction, the candidates for the degree of Doctor of Dental Surgery, and other educational matters dealing with dentistry.

The course in dentistry covers four academic years leading to the degree of Doctor of Dental Surgery. The greater part of the first two years of the curriculum is taken in the fundamental science departments of instruction in the University which are integral parts of the College of Physicians and Surgeons and the School

of Dental and Oral Surgery.

REQUIREMENTS FOR ADMISSION, PROMOTION AND GRADUATION

ADMISSION TO FIRST YEAR OF THE SCHOOL OF DENTAL

AND ORAL SURGERY

Application. It is desirable that candidates make application during the academic year preceding that in which they seek admission. It is not necessary to complete the academic requirements before making application. However, all requirements must be completed before matriculation. Application blanks will be furnished by

the Dean's office of the School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y. Application blanks must be completely filled in and accom-

panied by an official transcript of the college record.

The minimum requirement for admission to the first-year class is the satisfactory completion of three full years at an acceptable college of arts and sciences, which must include the satisfactory completion of the courses required for the dental student qualifying certificate as mentioned below.

The New York State Board of Regents includes the following subjects in the

minimum requirements for the qualifying certificate:

																	Semester Hours
English o	om	posi	tion	ano	l lit	erat	ure										6
Physics	. '	٠.										,					6
Biology																	6
Chemistr	y (i	nclu	ıdin	g aı	ı ap	pro	ved	cou	ırse	in o	rga	nic (her	nist	ry)		12

A point or semester hour is the equivalent of one hour of lecture or recitation plus two hours of home work or three hours of laboratory work per week, per semester. Suitable laboratory work must be included in each of the courses in science.

Inasmuch as an understanding of the biological sciences is based upon the knowledge of the underlying sciences of chemistry, physics, and biology, students are urged, so far as time permits, to take additional courses in quantitative, qualitative, physical, and organic chemistry, physics, comparative anatomy and other advanced courses in biology, as well as courses in mathematics, German and French, sociology, history, and other subjects of general cultural and scientific value. Courses in fine and industrial arts are also of value.

Owing to the limited number of students who can be accommodated, completion of the requirements for entrance does not guarantee admission. The entire predental record of each student is carefully examined by the Committee on Admissions in order that those who are adjudged most capable of meeting the exacting demands of the course and of the profession of dentistry may be selected. Preference will be given in the selection of students to those who present to the Committee on Admissions evidence of high achievement in selected college courses of special predental value and who, in the opinion of the Committee on Admissions, are most likely to succeed in dentistry, rather than to those who present the largest number of course credits or those who have limited their preparation to the prescribed subjects. Acceptance of a student for admission is based on grounds of character and health, as well as on the fulfillment of academic requirements.

An acceptance fee of \$50 is payable within two weeks after notification of accept-

ance (see page 11).

COMBINED COURSES

Combined Courses with Columbia College. Upon receiving ninety-four points credit, sixty-four of which must be for work in Columbia College, including all the work prescribed for the degree of Bachelor of Arts in Columbia College, a student may take studies in the first year of the School of Dental and Oral Surgery, provided he can satisfy the stated requirements and is accepted for admission therein, and will receive the degree of Bachelor of Arts from Columbia College upon the satisfactory completion of the year's work. No course may be counted toward a professional degree and at the same time be included among those which go to

make up the ninety-four points referred to above.

Combined Courses with Barnard College. Students from Barnard College may exercise the professional option after the completion of ninety points of academic work, including all grouped work and a major of twenty-eight points unless this number is reduced in individual cases by special permission of the Committee on Instruction of Barnard College.

Combined Courses with the School of General Studies. Students from the School of General Studies may exercise the professional option after the completion of ninety-four points, including all the courses prescribed for the Bachelor of Science degree, not less than sixty-four of which have been received for work in Columbia

University.

Combined Courses in Dentistry and Medicine. It is usually possible for a graduate of a registered medical school with the degree of Doctor of Medicine to meet the requirements of the School and receive the degree of Doctor of Dental Surgery by the satisfactory completion of a special two-year course, which may include one summer session.

ADMISSION OF FOREIGN STUDENTS

The State Department of Education has special requirements with which students who are not citizens of this country must comply. Any foreign student desiring to apply to the School of Dental and Oral Surgery should communicate with the Dean.

REGISTRATION

Before attending University courses, every student must present himself at the office of the Registrar and file a registration blank giving such information as may be required. The periods set aside for registration in each session are stated in the Academic Calendar at the beginning of this Announcement. Registration at a later date is permitted only on the written permission of the Dean, satisfactory cause for the delay having been shown.

FEES

The University Statutes provide that tuition fees, the University fee, and laboratory deposits are payable semiannually in advance. No reduction is made for late registration. Registration will not be complete until such fees are paid. Checks should be drawn to the order of Columbia University and presented in person or mailed to the office of the Bursar. Payment of fees after the last day of registration (see the Academic Calendar) imposes automatically the statutory charge of \$3.00 for this privilege. Under the regulations, the privileges of the University are not available to any student until he has completed his registration.

The fees to be paid by students are subject to change at any time at the discretion

of the Trustees.

The following annual fees are prescribed for dental students:

(a) University Fee

(b) Tuition Fee For the course in dentistry for one academic year (or equivalent) in the case of a student enrolled for the full course, payable in two installments. \$7. For students not enrolled for the full course, fees are to be assessed by the Registrar as provided by the University Statutes.	50.00
(c) Fee for Application For a degree	20.00
 (d) Privileges 1. Late registration or late application for a degree or for deficiency or special examinations 2. Deficiency or special examinations 3. Renewal of application for any degree 	3.00 3.00 1.00
(e) Student Activities (payable annually) For all students, Dental Abstracts Journal	2.00
(f) Student Health Service Fee This fee will be used to pay the annual premium of the Associated Hospital Service of New York for hospital insurance and to pay part of the cost of the student health service. For all students, per academic year	2 0.00
(g) Case Rental For Sophomores, Juniors, and Seniors, rental for one instrument case, for one academic year, payable in two installments	5.00
(h) Rebates	
 The University fee and the fee for application for any degree shall not be subject to rebate. No tuition fee shall be returned for any course which the student may for any reason discontinue. Exception to this rule may be made only in cases of total withdrawal from the University, when a partial return of fees may be authorized by the Registrar. When a rebate is allowed for the discontinuance of courses or withdrawal from the University, such rebate will be reckoned from the day upon which the Registrar receives notice from the student. 	
(i) Deposit	25.00

Acceptance Fee. Within two weeks after an applicant has been notified that his application has been accepted, he must notify the Dean that he intends to matriculate and accompany his communication with a check or money order for \$50, payable to Columbia University. This acceptance fee will belong to the University and, if he does not register at the School for the specific session, it will not be returned.

If he registers at the School at the next enrollment of entering students, the amount of the acceptance fee will be deducted from his tuition fees for that session.

Fees for Repeated Courses. Students obliged to repeat the work for any year are required to pay the full tuition fee.

DENTAL EQUIPMENT

Instruments and Supplies. Each student is required to supply himself with instruments as specified in the official instrument list. The purchase from the University of instruments in original package outfits has been made compulsory, and unauthorized or incomplete equipment will not be accepted by the instructors. All technique material and regular supplies must be purchased from the University upon order from the instructor. The students will not be allowed to purchase more than is required to complete a case. The quantity and quality are selected with a view to the best possible results and conservation of the student's best interests.

Microscopes. All students entering the School of Dental and Oral Surgery are required to provide themselves with microscopes of a satisfactory type. A microscope of standard make fitted with the following attachments will fill the requirements:

- a. Triple nosepiece.
- b. Abbe condenser.
- c. 10x and 6x oculars.
- d. 16 mm. and 4 mm. objectives.
- e. Oil immersion lens.

Lockers. Each student will be assigned a locker on entering and will be required to use a combination lock as prescribed by the School.

ESTIMATED EXPENSES

Following is an itemized estimate of the average expenses of a full-time student for an academic year in the School of Dental and Oral Surgery exclusive of travel, clothing, amusements, charity, organizations, and sundries. These items are, of course, variable but should not be overlooked in estimating the total expense. The tuition, room, board, books, and laundry figures are based upon the rates which prevailed during 1948–1949 and can be accepted as applicable in general for the year 1949–1950 unless national economic changes require their alteration.

						Average	Minimum
Tuition and University fees						\$ 770	\$ 770
Miscellaneous fees						55	30
Room						330	190
Board						385	350
Books						150	115
Instruments (see below) .						325	325
Laundry						75	35
Total						\$2,090	\$1,815

These estimates are subject to correction as the basic prices of supplies and instruments change. Instruments are to be paid for at the opening of the academic year. The cost of books will vary, depending upon the choice made from the selection offered.

STUDENTS

Each person whose registration has been completed will be considered a student of the University during the session for which he is registered unless his connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the consent of the appropriate dean or director.

Students prevented by conscientious scruples from complying with academic requirements which may be fulfilled only upon days set apart by their church for religious observance should make application to the Dean for an equitable solution.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University, which is free to cancel his registration at any time on any grounds which it deems advisable. The disciplinary authority of the University is vested in the President in such cases as he deems proper, and, subject to the reserved power of the President, in the dean of each faculty and the director of the work of each administrative board.

WITHDRAWAL

An honorable discharge will always be granted to any student in good academic standing and not subject to discipline who may desire to withdraw from the University; but no student under the age of twenty-one years shall be entitled to a discharge without the assent of his parent or guardian furnished in writing to the proper dean. Students withdrawing must notify the Registrar immediately.

The Dean of the School may, for reasons of weight, grant a leave of absence to a student in good standing.

REQUIREMENTS FOR PROMOTION

r. A student may be admitted to the second, third, or fourth year of the dental curriculum only upon the recommendation of the class officers of instruction under which he has studied during the preceding year.

2. The School of Dental and Oral Surgery reserves the right to refuse readmission or promotion to any student who is believed for any reason to be unsuited to the conditions of study in this school.

Students are classified for readmission or promotion under the following headings:

- I. Recommended for advancement.
- II. Recommended for readmission to the same class.
- III. Recommended neither for advancement nor for readmission to the same class:
 - a) Because of failure.
 - b) Those who fall under paragraph 2 of rules for advancement of students.

GRADING OF STUDENTS

The following grade equivalents are used: A, excellent; B, good; C, fair; F, failure.

REQUIREMENTS FOR GRADUATION

In addition to complying with the requirements for admission and to completing the required work of the curriculum, each candidate for the degree of Doctor of Dental Surgery must present satisfactory evidence as required by law of good moral character and of having attained the age of twenty-one years. If the candidate shall have been admitted to advanced standing, he must have spent not less than four academic years or their equivalent in approved medical or dental colleges in the study of the subjects making up the curriculum of the School of Dental and Oral Surgery.

GRADUATION

Commencement occurs in June, at which time all recipients of degrees awarded during the academic year are expected to attend the exercises unless excused. Diplomas are issued in June or at various times during the year.

No degree will be granted to a student who has not registered for and attended at the University courses of instruction equivalent to at least one academic year of

full-time work.

An application for a degree or certificate, other than the several doctoral degrees, terminates at the next regular time for the issuance of diplomas subsequent to the date of filing; but under conditions prescribed by the respective faculties it may be subject to renewal for a fee of \$1.00 each time that a candidate chooses to come up for consideration, within a period not to exceed three years. Thereafter with the filing of a second application the regular fee is again payable—\$20 in the case of a degree and \$10 in the case of a certificate.

Dates for the filing of applications are given in the Academic Calendar at the

beginning of this Announcement.

COURSES FOR DENTAL HYGIENISTS

In September, 1947, the period of training for dental hygienists was increased from one to two academic years. On October 21, 1947, the University Council approved the establishment of the degree of Bachelor of Science to be conferred upon students who, having been admitted on the basis of two years of approved college study covering not less than sixty points in liberal arts subjects, including satisfactory courses in English, biological science or chemistry, and sociology or psychology, complete the course of instruction in the field of Dental Hygiene, consisting of two academic years of study, prescribed by the Faculty of Medicine.

Candidates for admission must be women between the ages of eighteen and thirty-five years and must present a record of good health. All candidates are required to make formal application in writing on blanks supplied by the School. After the application has been submitted, the academic record of the candidate will be secured by the School. Wherever possible, a personal interview is required before

the candidate is accepted.

Applicants must satisfy the following requirements: Two years of sixty semester hours of credit in liberal arts from a college or university approved by Columbia University. The following subjects are required:

						Semester Hours
English						
Biological science or chemistry						3
Sociology or psychology						

Upon the successful completion of the two-year curriculum in dental hygiene, the Bachelor of Science degree will be conferred.

Applicants who lack not more than eight credits for the sixty credits required for admission will be considered for matriculation on the condition that the eight credits be earned during the Summer Session between the Junior and Senior years.

For further information address the Dean, School of Dental and Oral Surgery, 630 West 168 Street, New York 32, N. Y.

SHORT COURSES FOR GRADUATES IN DENTISTRY

The School of Dental and Oral Surgery arranges courses in the various divisions of dentistry to meet the needs of groups of practitioners. In 1949–1950 short refresher courses will be offered in various subjects in accordance with demand.

Admission requirements include graduation from an approved dental school and licensure to practice dentistry within the United States or a foreign country. There is no degree or certificate offered for these specially arranged courses. For further information see the Announcement of Postgraduate Courses for Dentists, which may be obtained from the Dean, School of Dental and Oral Surgery.

CERTIFICATE OF TRAINING

The School of Dental and Oral Surgery is authorized to grant a certificate of training in dentistry, or in a special branch of dentistry selected by the candidate and approved by the School of Dental and Oral Surgery, to students who have been graduated from an acceptable school of dentistry in the United States or a foreign country.

The course of study for the certificate of training includes not less than fortyeight trimester credits of special work in the clinical branches of dentistry approved by the Dean. At present, an organized fifteen months' course is offered to qualified graduates in dentistry who wish to prepare for specialization in orthodontics. Advanced courses leading to certificates of training are also offered in general restorative dentistry; oral diagnosis and roentgenology; oral surgery; orthodontics; pedodontics; and periodontology. For further information see the Announcement of Postgraduate Courses for Dentists, which may be obtained from the Dean, School of Dental and Oral Surgery.

GRADUATE COURSES IN THE BASIC SCIENCES

A limited number of fellowships are available to graduates of dental schools acceptable to Columbia University. These fellowships offer opportunity for study in

the following basic science departments of the University: Anatomy, Bacteriology, Biochemistry, Pathology, Pharmacology, and Physiology. For further information regarding qualifications and stipend, address the Dean, School of Dental and Oral Surgery.

COURSES LEADING TO THE DEGREE OF DOCTOR OF PHILOSOPHY

Graduation from accredited dental schools under the present curriculum of four academic years preceded by three acceptable predental college years is considered by the Graduate Faculties of Columbia University as meeting the general requirement for admission. There are additional admission requirements in certain departments. A student who is accepted by the Graduate Faculties as a candidate for the degree of Doctor of Philosophy and who holds the Doctor of Dental Surgery degree from Columbia University may, with the consent of the Dean, offer the work done for the professional degree in lieu of thirty points toward the fulfillment of the resident requirement for the degree. For further information see the Announcement of the Faculty of Pure Science, which may be obtained from the Office of University Admissions, Columbia University, New York 27, N. Y.

PUBLIC HEALTH FOR DENTISTS

A one-year course leading to a Master of Public Health degree is offered by the School of Public Health. The course is open to graduate dentists. For further information regarding course content, registration, and fees apply to the Director, School of Public Health, 600 West 168th Street, New York 32, N. Y.

LICENSE TO PRACTICE DENTISTRY IN NEW YORK STATE

Those desiring to take the New York State Board examinations are advised to address the Chief of Professional Examinations Bureau, New York State Department of Education, Albany, New York. All applications for admission to the examinations should be completed at least fifteen days before the examinations begin.

The examinations are conducted by the Department, and answer papers are read and marked by the Board, who know the candidate only by number. The subjects of the licensing examinations are anatomy, chemistry and metallurgy, operative dentistry and radiography, therapeutics and materia medica, physiology and hygiene, oral surgery, pathology and bacteriology, prosthetic dentistry, and histology. The operative and prosthetic subjects are divided into theory and practice. The minimum standing required in each subject is 75 percent.

The State Department of Education will admit conditionally to the examinations in anatomy, physiology, chemistry and metallurgy, and histology, applicants over nineteen years of age who are of good moral character, who are citizens of the United States or have declared the intention of becoming citizens in accordance with the law, and who are certified as having successfully completed the first two

years of the required course in a registered dental school.

PLAN OF INSTRUCTION

The curriculum is arranged with the object of providing the student with the necessary opportunities for acquiring a knowledge of the fundamental sciences in relation to dentistry and the techniques of approach in dental problems. Beginning in the first two academic years with a study of the basic sciences, particularly anatomy, biochemistry, bacteriology, pathology, pharmacology, and physiology, the student prepares himself for an understanding of the problems to be encountered in his later clinical work. The third and fourth academic years are devoted to mastering the methods of diagnosis and treatment of patients and acquiring a knowledge of disease patterns and the arts and skills required in preventing, curing, or controlling them.

Throughout the entire course an effort is made to interrelate the different phases of the dental learning by means of "correlative" and "combined" clinics in which the various departments and divisions coöperate in the discussion and demonstration of the same and related problems and thus treat the study of dentistry as a unit rather than a series of isolated branches of learning. At the same time an attempt is made to individualize instruction and to place responsibility as far as practicable upon the student for his own training. This is accomplished by means of the division of classes into small sections, conferences, and the comprehensive case method of instruction.

CURRICULUM

1949-1950

Subject*	Trimester Credits	Lecture or Seminar Hours	Lab. or Clinic Hours	Total Hours
FIRST YEAR				
Anatomy				
Embryology 152 F		16	• • •	16
Gross 151 FS	13	50	241	291
Microscopic 150 FS	8	42	126	168
Neuro 153 T	4	30	36	66
Oral 101 ST	5 8	19	104	123
Biochemistry 150 ST	8 ,	39	128	167
Histology, Oral 115 ST	2 🗸	7	65	72
Physiology 150 FS	II	56	191	247
	52			1,150

^{*} Letter following course number designates trimester: $F \equiv$ first, $S \equiv$ second, and $T \equiv$ third.

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Subject*	Trimester Credits	Lecture or Seminar Hours	Lab. or Clinic Hours	Total Hours
SECOND YEAR				
Bacteriology 151 F and 152 F	7	43	99	142
Crown and Bridge 105 ST	6	10	165	175
Dental Materials 126 FS	2	10	34	44
Operative Dentistry 131 FST	8	20	197	217
Oral Hygiene 122 T	2	20	120	20 180
Pathology 150 FS	9 1	50	30	30
Periodontology 151 T	6	55	33	88
Pharmacology 150 ST	9	20	209	229
Psychiatry 150 S	1	11		11
Theory and Practice	}			
Dental History 283 F	ı	10		10
Therapeutics 286 T	1	10		10
1				1,156
WITTEN ATTAIN	53			1,150
THIRD YEAR	I	10		10
Anatomy, Applied 252 S	1	10		10
Crown and Bridge	3		83	83
Technique 205 F and 207 F	t	10	110	120
Applied Occ. Dynamics 212 T	1		30	30
Diagnosis 212 FST		30	30	60
Operative Dentistry 233 FST		10	245	255
Orthodontics 241 F		20	59	79
Pathology, Oral 246 FS		20	59	79
Periodontology 251 S			30	30
Practice of Medicine 278 ST	5	40	22	62
Prosthetic Dentistry 260 FST and 261 FST	8	20	173	193
Radiology 267 F	. 1	• • • •	30	30
Surgery, Oral 270 FT	. 2	10	30	40
	48			1,071
FOURTH YEAR				
Crown and Bridge 210 FST and 211 FST	r 6	10	142	152
Diagnosis 213 F			30	30
Diagnosis Seminar 214 S			30	30
Orthodontics 243 FST	1		30	30
Operative Dentistry 234 FST	. 13	20	328	348
Pedodontics 202 FST		10	83	93
Periodontology 252 FS and 253 FS	. 3	20	30	50
Prosthetic Dentistry 263 FST and 264 FS	T 6	10	141	151
Public Health 222 S	2)	20		20
Surgery, Oral 272 FST	. 6	40	60	100
Surgery Seminar 274 T	. 0			10
Surgical Prosthesis 265	. I		30	30
Theory and Practice	ı	10		10
Ethics 281 T	0	10		10
Jurisprudence 282 ST		1		
Comprehensive 205				
	44			1,064

^{*} Letter following course number designates trimester: $F \equiv {\rm first}, \ S \equiv {\rm second}, \ {\rm and} \ T \equiv {\rm third}.$

COURSES OF INSTRUCTION

For purposes of instruction the work of each academic year is scheduled in three sessions which are designated as First, Second, and Third Trimesters. The unit of credit signifies approximately three academic hours of work a week for one session. For lecture courses this represents one hour a week in class and two hours of homework. For laboratory or clinical work it represents approximately three academic hours of work a week in the School.

For a detailed statement of the content of each course, the student is referred to the departmental statements which follow. Courses numbered from 100 to 199 are open to candidates for the degree of Doctor of Dental Surgery in the first and second academic years. Courses numbered from 200 upward are open to candidates for the degree of Doctor of Dental Surgery in the third and fourth academic years.

The outline on pages 17 and 18 shows the work required of a candidate for the degree of Doctor of Dental Surgery. The University reserves the right to make such changes in the program of studies at any time as experience may prove desirable.

ANATOMY

Anatomy 101-Oral anatomy. Freshman year. 5 credits.

Lectures, recitations, and laboratory on the growth and development of the jaws and face and the individual teeth, the structural formation of the teeth, the anatomy of the surrounding and related tissues of the oral cavity, and the morphology of the teeth.

Anatomy 115—Oral histology and embryology. Freshman year. 2 credits.

Lectures and laboratory on the microscopic structures of the oral tissues and the application of this knowledge to technical dentistry.

Anatomy 150-Microscopic anatomy. Freshman year. 8 credits.

Lectures, conferences, and laboratory.

This course is the same as Anatomy 101F in the Medical School.

Anatomy 151—Gross anatomy. Freshman year. 13 credits.

Lectures, conferences, and laboratory,

Anatomy 152-Embryology. Freshman year. 1 credit.

Lectures and demonstrations dealing with the dynamics of vertebrate development, with particular reference to mammals and man.

Anatomy 153-Neuroanatomy. Freshman year. 4 credits.

Lectures and demonstrations on the gross anatomy, structure, and functions of the central nervous system. This course is equivalent to *Anatomy 106S* in the Medical School.

Anatomy 252—Applied anatomy of the head and neck. Junior year. 1 credit.

Lectures and demonstrations. A review course with special application to the problems of the major fields of dentistry.

BACTERIOLOGY

Bacteriology 151—General medical bacteriology and immunology. Sophomore year. 4 credits.

Lectures, conferences, and laboratory.

Bacteriology 152—Principles of bacteriology, epidemiology, infection, immunity, serum diagnosis, and specific therapy. Sophomore year. 3 credits.

This course is identical with *Bacteriology 105F* in the Medical School except that lectures on the mouth bacteria are substituted for several of those of the medical series.

BIOCHEMISTRY

Biochemistry 150—Introductory biochemistry. Freshman year. 8 credits.

Lectures and laboratory. A study of the chemistry of life processes with special reference to the animal organism.

DENTAL MATERIALS

Dental Materials 126—Physical properties of dental materials. Sophomore year. 2 credits.

Lectures and laboratory on the physical and chemical properties of the metals and other materials used in dentistry, with clinical applications.

DIAGNOSIS

Diagnosis 212—Dental diagnosis lecture and clinic. Junior year. 4 credits.

Lectures, conferences, and clinical practice in oral examination and charting, history-taking, methods of pulp testing, dental X-ray diagnosis, oro-dental symptomatology, and occlusal disharmonies.

Diagnosis 213—Dental diagnosis clinic. Senior year. 1 credit.

Continuation of clinic of Diagnosis 212.

Diagnosis 214—Diagnosis seminar. Senior year. No credit.

Discussion and differential diagnosis of selected cases.

MEDICINE

Medicine 278—General survey of medicine. Junior year. 5 credits.

Lectures and conferences covering phases of general medicine pertinent to dentistry and clinics for small groups in which the patients are studied for correlation of systemic and dental conditions.

OPERATIVE DENTISTRY

Operative Dentistry 131—Elements of operative dentistry. Sophomore year. 8 credits.

Lectures on the fundamentals of operative dentistry. Technical procedures in the filling of teeth, the study of dental materials, and introduction to clinical practice.

Operative Dentistry 233—Operative clinical practice. Junior year. 10 credits.

Lectures on the application of operative fundamentals to clinical practice. The technique of porcelain inlay construction. Clinical practice and demonstrations.

Operative Dentistry 234—Advanced operative clinical practice. Senior year. 13 credits.

A continuation in lectures and clinic of Operative Dentistry 233 with the consideration of special problems in operative practice, including root-canal therapy.

ORAL HYGIENE

Oral Hygiene 122—Oral hygiene lectures. Sophomore year. 2 credits.

Lectures and conferences on scientific findings related to the etiology and prevention of dental caries and diseases of the periodontium.

ORTHODONTICS

Orthodontics 241—Principles of orthodontics. Junior year. 3 credits.

Lectures and laboratory. Orthodontic fundamentals with special emphasis on prevention in orthodontics by the early recognition and correction of the predisposing factors. Laboratory time devoted to the designing and constructing of removable appliances used as space maintainers, habit breakers, and to correct tooth alignment in preparation for restorative dentistry and treatment of periodontal conditions. Clinical practice in the use of appliances constructed in the laboratory.

Orthodontics 242—Orthodontic clinic. Junior year. No credit.

Clinical orthodontics.

Orthodontics 243—Orthodontic clinic. Senior year. 1 credit.

Orthodontics 242 continued in the Senior year.

PATHOLOGY

Pathology 150—General and special pathology. Sophomore year. 9 credits.

A study of important pathological conditions, demonstrated by museum specimens and a very complete series of histological preparations.

Pathology 246—Oral pathology. Junior year. 4 credits.

Lectures, conferences, and laboratory work on the diseases of the jaws, mouth, and teeth.

Pathology 247—Oral pathology seminar. Senior year. No credit. Elective.

Conferences on the clinical application of oral pathology.

PEDODONTICS

Pedodontics 202—Pedodontics, lectures and clinic. Senior year. 4 credits.

Lectures and conferences on operative dental procedures for children, management of child dental patients, and the application of present knowledge of dental development, and preventive dentistry. Clinical work includes history-taking, prophylaxis, and restorative procedures adapted to deciduous and early permanent dentitions.

PERIODONTOLOGY

Periodontology 151—Periodontia clinic. Sophomore year. 1 credit.

Lectures and clinics on dental prophylactic technique, and early disturbances of the periodontium.

Periodontology 251—Periodontia clinic. Junior year. 1 credit.

Lectures and clinics in the diagnosis and treatment of periodontal diseases.

Periodontology 252—Periodontology lectures. Senior year. 2 credits.

Lectures and conferences on the theory and practice of periodontology.

Periodontology 253-Periodontia clinic. Senior year. 1 credit.

Work in clinics in the diagnosis and treatment of advanced periodontal diseases.

PHARMACOLOGY

Pharmacology 150—Pharmacology. Sophomore year. 6 credits.

Lectures, conferences, and laboratory. In this course the pharmacological action of drugs on man and lower animals is studied.

PHYSIOLOGY

Physiology 150—Mammalian physiology. Freshman year. 11 credits.

Lectures, conferences, and laboratory.

PROSTHETIC DENTISTRY

Prosthetics 105—Crown and bridge lectures and technique. Sophomore year. 6 credits.

Lectures on the technical procedures in crown and bridgework with practical application, and the construction of bridges and crowns on technique models.

Prosthetics 157—Prosthetic lectures and technique. Sophomore year. 9 credits.

Lectures and technical procedures in full and partial denture construction.

Prosthetics 205—Crown and bridge lectures and technique. Junior year. 2 credits.

Lectures on the technical procedures in crown and bridgework with practical application, and the construction of bridges and crowns on models and extracted teeth.

Prosthetics 206—Crown and bridge clinic. Junior year. 5 credits.

Clinical construction of elementary crown and bridgework.

Prosthetics 207-Porcelain technique. Junior year. 1 credit.

Uses of porcelain; construction of porcelain jacket crown on technique model; staining and glazing of artificial teeth.

Prosthetics 210-Crown and bridge lectures. Senior year. 1 credit.

Lectures and conferences on various types of bridgework.

Prosthetics 211—Crown and bridge clinic. Senior year. 5 credits.

Clinical construction of crown and bridgework.

Prosthetics 212—Applied occlusal dynamics. Junior year. 1 credit.

Lectures, demonstrations, and technique stressing the relationship of occlusal deformities, both natural and acquired, to oral physiology. Correlation of all factors involved in the corrective and restorative procedures.

Prosthetics 260—Prosthetic lectures. Junior year. 2 credits.

Examination, classification, application of anatomical considerations, and clinical procedure in full and partial denture construction.

Prosthetics 261—Prosthetic clinic. Junior year. 6 credits.

Clinical construction of full and partial dentures.

Prosthetics 263-Prosthetic clinic. Senior year. 5 credits.

Clinical construction of full and partial dentures.

Prosthetics 264-Prosthetic lectures. Senior year. 1 credit.

A series of lectures by outstanding local practitioners in the prosthetic field on clinical considerations in partial denture diagnosis, design, and construction.

Prosthetics 265—Surgical prosthesis. Senior year. 1 credit.

Lectures and technical procedures in maxillofacial and surgical prosthesis.

PSYCHIATRY

Psychiatry 150—Psychopathology. Sophomore year. 1 credit.

Lectures in psychobiology; the growth, instinctive and emotional development of the individual from birth to adulthood; personality traits and patterns; personality factors in physical illness; types of abnormal behavior based on brain pathology, on functional processes or habit disturbances, with clinical demonstrations. Principles of mental bygiene and environment adjustments.

PUBLIC HEALTH

Public Health 222—Principles of public health. Senior year. 2 credits.

Survey course in the theory and practice of preventive medicine, dentistry, and public health. Fundamental principles of administration, statistics, epidemiology, industrial hygiene, and sanitation. The principles and problems of dental public health practice are emphasized.

Public Health 223—Epidemiology and biostatistics. Senior year. Elective. Six hours a week for 8 weeks.

A lecture and laboratory course in introductory vital statistics. Offered to Seniors who are eligible for electives.

RADIOLOGY

Radiology 267—Oral radiology practice. Junior year. 2 credits.

Lectures, readings, and discussions on topics relative to oral radiology. Practice in exposing, processing, and mounting dental radiographs.

SURGERY

Surgery 270—Oral surgery. Junior year. 2 credits.

Lectures, seminars, demonstrations, and clinical practice on local anesthesia, and the removal of teeth.

Surgery 272—Oral surgery. Senior year. 6 credits.

Lectures and conferences on oral and maxillofacial surgery and general anesthesia.

Clinical practice in local anesthesia and the removal of teeth. Clinical demonstrations in the diagnosis and operative procedures in the treatment of diseases, injuries, and malformation about the face, jaws, and oral cavity.

Surgery 274—Oral surgery seminar. Senior year. No credit. Required.

Lectures and seminars in diagnosis and treatment planning in the field of oral surgery. Case presentation.

THEORY AND PRACTICE OF DENTISTRY

Theory and Practice 281—Dental ethics and practice management. Senior year. 1 credit.

Lecture and conference course on dental ethics, economics, office conduct and practice management.

Theory and Practice 282—Dental jurisprudence. Senior year. No credit.

Lecture and conference course in dental jurisprudence.

Theory and Practice 283—Dental history. Sophomore year. 1 credit.

Lecture and conference course in dental history.

Theory and Practice 285—Comprehensive case. Senior year. No credit.

Each student is assigned a case for which he performs all the dental services: taking of x-ray negatives, treatment planning, surgery, and reparative and restorative procedures. The services are carried out in the various clinical divisions, where grades are entered for the student toward the fulfillment of his clinical requirements. The oral examination accompanying the inspection of the completed case aims to correlate the teaching of the entire course.

Theory and Practice 286—Therapeutics. Sophomore year. 1 credit.

Lectures and conferences on drugs and other therapeutic agents used in dentistry.

Formerly Pharmacology 250.

TEXTBOOKS

The following list includes most of the books normally used. As a rule, only the latest editions of the textbooks should be purchased. Students are warned against buying any books until specifically advised by the departments concerned.

Anatomy. Gross anatomy: Stedman, Gould, or American, Medical Dictionary; Cunningham, Manual of Practical Anatomy, Vols. II and III; mimeographed Dissecting Directions; one of the following three: Grant, Atlas of Anatomy; Truex and Kellner, Detailed Atlas of the Head and Neck; or Spalteholz, Hand Atlas of Human Anatomy.

Applied anatomy: Shapiro, Applied Anatomy of the Head and Neck (2d ed.).

Embryology: One of the following three: Arey, Developmental Anatomy; Hamilton, Human Embryology; or Patten, Human Embryology.

Microscopic anatomy: Bailey, Textbook of Histology (12th ed.); mimeographed laboratory manual.

Neuroanatomy: Strong and Elwyn, Human Neuroanatomy; mimeographed laboratory manual.

Oral anatomy: Diamond, Dental Anatomy (3d ed.).

Oral histology and embryology: Orban, Oral Histology and Embryology.

BACTERIOLOGY: Jordan and Burrows, Textbook of Bacteriology (14th ed.); or Dubos, Bacterial and Mycotic Infections of Man; and Rivers, Viral and Rickettsial Infections of Man; and laboratory manual in medical bacteriology and immunology.

BIOCHEMISTRY: Harrow, Textbook of Biochemistry (4th ed.); Karshan, Laboratory Manual of Biochemistry for Dental Students.

DENTAL ETHICS AND PRACTICE MANAGEMENT: McGehee and Walker, Dental Practice Management.

Dental Therapeutics: Council on Therapeutics, American Dental Association, Accepted Dental Remedies.

Diagnosis: Ziskin et al., Differential Diagnosis (1st ed.); Ziskin, Pulp Symptomatology, (1943 ed.).

MEDICINE: Yater, Fundamentals of Internal Medicine (2d rev. ed.).

OPERATIVE DENTISTRY: Black, Operative Dentistry, Vols. II and III; Operative Dentistry Syllabus.

ORAL PATHOLOGY: Cahn, Pathology of the Oral Cavity.

ORTHODONTICS: Salzman, Principles of Orthodontics.

Pathology: One of the following four: Boyd, Textbook of Pathology; Karsner, Textbook of Pathology; Moore, Textbook of Pathology; or Anderson's Pathology.

Pedodontics: McBride, Juvenile Dentistry.

Periodontology: Goldman, Periodontia.

Pharmacology: One of the following four: Gaddum, *Pharmacology*; Goodman and Gilman, *Pharmacological Basis of Therapeutics* (1941); Sollman, *Pharmacology*; or Oldham, Kelsey, and Geiling, *Essentials of Pharmacology*.

Physiology: One of the following three: MacLeod's (ed. Bard) Physiology in Modern Medicine; Howell's (ed. Fulton) Textbook of Physiology; or Best and Taylor, Physiological Basis of Medical Practice; Physiology Laboratory Manual.

PROSTHETIC DENTISTRY: Skinner, Science of Dental Materials; Swenson, Complete Dentures; Tylman, Crown and Bridge Prothesis; United States Government Printing Office, Physical Properties of Dental Materials, Bureau of Standards Circular C433; Young et al., Syllabus on Complete Dentures.

PSYCHIATRY: Noyes, Modern Psychiatry; Cobb, Foundations of Neuro-psychiatry, (3d rev. ed., 1944).

RADIOLOGY: McCall and Wald, Clinical Dental Roentgenology (2d ed.).

Surgery: Berger, Principles and Technique of Oral Surgery; Berger, Principles and Technique of the Removal of Teeth; Parker, Synopsis of Traumatic Injuries of the Face and Jaw; Homan, Textbook of Surgery.

STUDENT ORGANIZATIONS

OMICRON KAPPA UPSILON

Epsilon Epsilon chapter of Omicron Kappa Upsilon, national honorary fraternity, was chartered in the School of Dental and Oral Surgery in 1934. The purpose of this organization is to recognize and honor a maximum of 12 percent of the members of the graduating Senior class, based on scholarship, character, and possession of potential qualities for future professional growth and attainments.

THE WILLIAM JARVIE SOCIETY

The William Jarvie Society for Dental Research is a nonsecret, dental honor society, membership in which is based upon scholarship and interest in dental research, and to which Sophomores, Juniors, and Seniors are eligible. The society was organized in the School of Dental and Oral Surgery in 1920 and named after Dr. William Jarvie because of his wide interest in the promotion of dental research. The society aims to promote the spirit of research among the students.

"DENTAL ABSTRACTS"

Dental Abstracts is an official publication of the School of Dental and Oral Surgery of the Faculty of Medicine, written and published by the Dental Abstracts Society, an undergraduate organization. This periodical is issued four times yearly and is received by libraries, hospitals, dental, medical, and public health schools,

organizations, and individuals throughout the world.

With the active guidance and cooperation of the officers of instruction of the School, undergraduate students read and abstract the current dental and related literature for publication in this journal. Undergraduate participation in this program is urged not only to assure continuation of this worthy project but, more important, to acquaint the student intimately with the recent advances in dental science and to gain sound principles toward the proper evaluation of the current literature.

REGISTRATION OF STUDENT ORGANIZATIONS

Blanks for the registration of student organizations, other than those for which the responsibility is assumed by a faculty or department of instruction, may be

obtained at the room assignment desk in the office of the Registrar.

Such student organizations come under the jurisdiction of the Committee on Student Organizations of the University Council and may be granted the privileges of (a) the use of names in which the name of the University is embodied or suggested, and (b) the use of University rooms or grounds for meetings and bulletin boards for announcements, only if they have filed their registration blanks, furnishing the committee with lists of officers and other executive members, statements of purposes, copies of constitutions and bylaws, and the nature of any affiliation or connection with non-University organizations.

FACILITIES

LIBRARY

The Library occupies part of the three lower floors in the College building. It is the seventh largest medical library in the country and the second in size among medical school libraries. It provides current literature (both books and journals) for faculty and students, and it aids in research through its own collections of current and historical works, and through its unique bibliographical service.

The Library contains approximately one-hundred fifty thousand volumes of books and journals, some five-thousand pamphlets and about two-thousand lantern slides on the history of medicine. More than fifteen-hundred periodicals are received regularly. A professional library staff is available to aid students, faculty, and research workers in the Schools of Medicine, Dentistry, Nursing, Public Health, and the hospitals of the Medical Center.

The Library is normally open:

Monday-I	rid	ay				8:30 A.M10:00 P.	м.
Saturday						9:00 а.м 6:00 р.	м.
Sunday						10:00 A.M 2:00 P.	м.

University Libraries. The libraries on Morningside Heights are open to all students of dentistry, and books may be borrowed for home use. They include collections on anatomy, biochemistry, public health, nursing, and other subjects related to dentistry, and supplement the special collections available in the College of Physicians and Surgeons and in the New York Academy of Medicine, Fifth Avenue at 103d Street. The library of the College of Pharmacy, 115 West 68th Street, is also open to students in the School of Dental and Oral Surgery.

UNIVERSITY PRIVILEGES

All students enrolled in the Dental School enjoy the privileges and facilities of the University campus, including access to the University libraries, Gymnasium, and other activities.

University Gymnasium. The Gymnasium is situated on Morningside Heights and is open daily, except on Sundays and holidays. Students of the School of Dental and Oral Surgery may enjoy its privileges and have the use of the Gymnasium and baths and a private locker.

STUDENT HEALTH SERVICE

Daily office hours are held for sick students, by the Students Health Service, in Room 2-220 of the Vanderbilt Clinic. Members of the Health Service are available to attend ill students if they live near the Medical Center. Students requiring hospitalization will be taken care of either in the wards of the Medical Center under an insurance policy of the Associated Hospital Service of New York or elsewhere under the terms of its policy.

All entering students are required to have a dental examination in the School and to have all necessary dental work completed prior to graduation.

RELIGIOUS LIFE

The life of the University community finds religious expression through St. Paul's Chapel and Earl Hall, and the ministry of the Chaplain and those associated with him in his work. The Chaplain of the University, the Rev. James A. Pike, is assisted by three Religious Counselors: the Rev. J. Edward Dirks, Counselor to Protestant Students; the Rev. John K. Daly, Counselor to Roman Catholic students; and Rabbi Isidor B. Hoffman, Counselor to Jewish students.

Daily services are held in the Chapel, and students are urged to familiarize them-

selves with the schedules which are conveniently posted.

A number of student religious organizations are established to which the Chaplain and Counselors serve as advisers and with which students are cordially urged to affiliate themselves.

The Chaplain and the Counselors are especially eager to establish warm personal relations with students and to meet them in consultation, at the Chapel or in their offices in Earl Hall.

UNIVERSITY RESIDENCE HALLS

The Men's Residence Halls, located on the 116th Street Campus, house unmarried men students. For further information write direct to the Residence Halls Office, Room 125, Livingston Hall, Columbia University, New York 27, N. Y.

Johnson Hall, a residence hall for graduate women students, is available for unmarried women students on a room and board basis. For further information write to the Head of Johnson Hall, Columbia University, New York 27, N. Y.

KING'S CROWN HOTEL

The King's Crown Hotel, 420 West 116th Street, in close proximity to the University, is owned by the University. It provides accommodations at reasonable rates, available for relatives and guests of members of the University community.

INTERNATIONAL HOUSE

International House, while not a University Residence Hall, is primarily a residence for students at Columbia University and other colleges and universities in New York City. It offers comfortable accommodations at reasonable rates. For further information, write directly to International House, 500 Riverside Drive, New York 27, N. Y.

MEDICAL CENTER BOOKSTORE

The Medical Center Bookstore, located on the second floor of the College of Physicians and Surgeons, is maintained for the convenience of the students and staff of the Medical Center schools and hospitals. The store carries a full stock of textbooks and all other student supplies. Substantial savings are effected whenever the rules of manufacturers and publishers permit. The store is open on weekdays from 8:45 a.m. to 5:30 p.m.; Saturdays, 8:45 a.m. to 1:30 p.m.

A GUIDE TO COLUMBIA UNIVERSITY

A description of the grounds and buildings of the University will be found in *A Guide to Columbia University*, published by Columbia University Press. The book also contains an account of the University's history and traditions.

FELLOWSHIPS, SCHOLARSHIPS, AND PRIZES

Recipients of University financial aid in excess of tuition, whether in the form of fellowships, scholarships, or other grants, will be asked to reside in the University Residence Halls unless exempted by the appropriate Dean with the approval of the

President upon the presentation of adequate reasons for living elsewhere.

Two Ellis Fellowships are awarded annually to qualified graduates of any of the colleges of recognized rank in the state of Vermont. The holders of these fellowships may pursue resident graduate studies under any one of the graduate schools maintained by the University, and are eligible for reappointment for not more than two additional years, with the proviso that a holder of the fellowship who is a student in medicine may be eligible for reappointment for not to exceed three additional years. The annual stipend is \$1,600. Applications should be submitted on or before March 1 on blanks to be filed with the Office of University Admissions.

See also "Graduate Courses in the Basic Sciences" on page 15.

Three scholarships of tuition value in the School of Dental and Oral Surgery are awarded annually. These scholarships are open to students from outside the metropolitan area whose records of scholarship and special fitness for dentistry make them

particularly desirable to the School.

The Van Woert Scholarship Fund was established by the alumni of the School of Dental and Oral Surgery in 1940. The award is given annually to a Senior student in the dental school who stands high in scholastic attainments, in personal character, and in potentiality of being a credit to Columbia University and the dental profession.

A prize known as the Ella Maria Ewell Medal is awarded annually to that student of the School of Dental and Oral Surgery who, in the judgment of the

Faculty, is most proficient in some subject of dentistry.

The Alumni Association makes an annual award of the Rowe-Wiberg Medal to the Senior student who has shown the greatest proficiency in prosthetic dentistry.

An annual award is made by the Sigma Epsilon Delta Fraternity to the graduating student who, in the opinion of the Faculty, shows the greatest promise.

An annual prize for excellence in pedodontics has been established by the Class

of 1929.

The staff of the Division of Operative Dentistry has established an annual prize for excellence in operative dentistry.

STUDENT AID

Loan funds are provided in limited amount for the assistance of students. Application for loans should be filed during the month preceding the session for which they are requested.

STUDENT EMPLOYMENT

Owing to the heavy schedule of the Dental School, it is difficult for dental students to undertake outside part-time work during the academic year and, so far as practical, other financial arrangements should be made.

THE ASSOCIATION OF THE ALUMNI OF THE SCHOOL OF DENTAL AND ORAL SURGERY

President, WILLIAM GIBLIN
President-elect, NATHANIEL DINER
Vice-President, JOHN T. FLYNN

Secretary, Herman Malter Treasurer, George Trattner Editor, Benjamin Kamrin

Any graduate, former student, officer of instruction, or administrative officer of the School of Dental and Oral Surgery is eligible to membership in the Association of the Alumni of the School of Dental and Oral Surgery of Columbia University.

OFFICERS OF INSTRUCTION

HAROLD ALEXANDER ABRAMSON Assistant Clinical Professor of Physiology

A.B., Columbia, 1920; M.D., 1923.
THOMAS H. ALLEN Assistant Professor of Physiology A.B., Iowa, 1936; Ph.D., 1941.
¹ VIRGINIA APGAR
EDMUND APPLEBAUM Assistant Professor of Dental Anatomy D.D.S., New York College of Dentistry, 1922.
HENRY ARTHUR BARTELS Assistant Professor of Dental Pathology B.S., Rhode Island State, 1917; B.S., Columbia, 1925; D.D.S., 1927.
ADOLPH BERGER
FRANK E. BEUBE Associate Clinical Professor of Dentistry L.D.S., D.D.S., Toronto, 1930.
SAMUEL BIRENBACH
HAROLD WILLIAM BROWN
Lester Richard Cahn Associate Professor of Dental Pathology D.D.S., New York College of Dentistry, 1917.
Hans Thacher Clarke Professor of Biochemistry B.Sc., London, 1908; D.Sc., 1914.
LOUIS ALEXANDER COHN Assistant Clinical Professor of Dentistry D.D.S., Pennsylvania, 1926.
WILFRED MONROE COPENHAVER Associate Professor of Anatomy A.B., Western Maryland, 1921; Ph.D., Yale, 1925.
JOSEPH ANTHONY CUTTITA Assistant Professor of Dentistry A.B., Fordham, 1932; M.S., 1936; D.D.S., Columbia, 1939.
SAMUEL RANDALL DETWILER
Moses Diamond
² BION R. EAST Associate Dean (Dental and Oral Surgery); Executive Officer, Department of Dental and Oral Surgery; Professor of Dentistry D.D.S., Michigan, 1908.
ADOLPH ELWYN Associate Professor of Neuroanatomy B.S., Columbia, 1915; A.M., 1917.
¹ On leave January 1 to June 30, 1950. ² On leave July 1 to September 30, 1949.

- HARRY ALLEN GALTON Assistant Clinical Professor of Dentistry D.D.S., Columbia, 1932.

- JOHN E. GORRELL Associate Professor of Hospital Administration B.S., Chicago, 1926; M.B., Northwestern, 1929; M.D., 1930.
- WILSON C. GRANT Assistant Professor of Physiology A.B., Wesleyan, 1937; A.M., 1938; Ph.D., Maryland, 1942.
- MAGNUS INGSTRUP GREGERSEN Dalton Professor of Physiology A.B., Stanford, 1923; A.M., 1924; Ph.D., Harvard, 1930.

- GEORGE W. HINDELS Assistant Clinical Professor of Dentistry M.D., Vienna, 1938; D.D.S., Columbia, 1943.
- IRVIN LELAND HUNT, JR. Associate Professor of Dentistry D.D.S., Pennsylvania, 1929.
- CLAUS WASHINGTON JUNGEBLUT Professor of Bacteriology M.D., Berne, 1921.
- Daniel M. Kollen Assistant Clinical Professor of Dentistry D.D.S., New York University, 1924.
- Nolan Don Carpentier Lewis Professor of Psychiatry M.D., Maryland, 1914.
 - ¹ On leave Winter Session.
 - ² On leave September 1, 1949, to May 31, 1950.

GEORGE FRANK LINDIG Assistant Clinical Professor of Dentistry D.D.S., Minnesota, 1924.
EWING CLEVELAND McBeath
SAUL MISHELOFF Assistant Clinical Professor of Dentistry D.D.S., Columbia, 1922.
EDWARD GERALD MURPHY
¹ Harry Stoll Mustard Associate Dean (Public Health); DeLamar Professor of Public Health Practice; Director, School of Public Health M.D., Medical College of the State of South Carolina, 1911; B.S., College of Charleston, 1914; LL.D., 1938.
WILLIAM LEO NASTUK Assistant Professor of Physiology B.S., Rutgers, 1939; Ph.D., 1945.
ALVIN S. NATHAN
JOHN LESTER NICKERSON
CARL REUBEN OMAN
Douglas Burnett Parker
MAX A. PLEASURE
WILLARD COLE RAPPLEYE Dean, Faculty of Medicine; Vice President in Charge of Medical Affairs; Professor of Medical Economics A.B., Illinois, 1915; M.D., Harvard, 1918; A.M. (hon.), Yale, 1922; Sc.D., Trinity (Conn.), 1939; Rutgers, 1949.
WILLIAM MITCHELL ROGERS Assistant Professor of Anatomy B.S., Georgia, 1921; Ph.D., Cornell, 1927.
WALTER STANTON ROOT
² Theodor Rosebury Associate Professor of Bacteriology D.D.S., Pennsylvania, 1928.
SOLOMON NATHAN ROSENSTEIN
WILLIAM J. SAVOY Assistant Clinical Professor of Dentistry B.S., Manhattan, 1931; D.D.S., Columbia, 1935.
SAUL SCHLUGER Assistant Clinical Professor of Dentistry D.D.S., Louisville, 1931.

On leave July 1 to December 31, 1949.
 On leave 1949–1950.

JOSEPH SCHROFF
HARRY H. SHAPIRO Assistant Professor of Anatomy D.D.M., Tufts, 1918.
WILLIAM H. SILVERSTEIN Assistant Clinical Professor of Dentistry D.D.S., Maryland, 1937.
GEORGE K. SMELSER Associate Professor of Anatomy A.B., Earlham, 1929; Ph.D., Chicago, 1932.
GILBERT PERCIVAL SMITH
HARRY PRATT SMITH Delafield Professor of Pathology A.B., California, 1916; M.S., 1918; M.D., 1921.
PHILIP EDWARD SMITH
LEO STERN, SR
Frances A. Stoll Assistant Professor of Dental Hygiene R.D.H., Columbia, 1934; B.S., 1944; M.A., 1945; Ed.D., 1949.
Lewis Riddell Stowe
DAVID TANCHESTER
ARTHUR CRANSTON TOTTEN
HARRY BENJAMIN VAN DYKE Hosack Professor of Pharmacology B.S., Chicago, 1918; Ph.D., 1921; M.D., Rush, 1923.
WILLIAM WELCH WALCOTT
SHIH-CHUN WANG Associate Professor of Physiology B.S., Yenching, 1931; M.D., Peiping Union Medical College, 1935; Ph.D., Northwestern, 1940.
EDWARD VICTOR ZEGARELLI
HOWARD ARDEN, B.S., D.D.S Assistant in Dentistry
HERBERT DELBERT AYERS, JR., A.B., D.D.S Instructor in Dentistry
¹ Bert Ballin, A.B., D.D.S
HERBERT BARTELSTONE, B.S., D.D.S Research Assistant in Dentistry
CARLISLE C. BASTIAN, D.D.S Lecturer in Dentistry ¹ On leave 1949–1950.

OSCAR EDWARD BEDER, B.S., D.D.S Instructor in Dentistry
JAMES WINSTON BENFIELD, A.B., D.D.S Instructor in Dentistry
DOROTHY R. BLITSTEN, Ph.B Lecturer in Dental Hygiene
IGNAZIO F. BOSCARELLI, B.S., D.D.S Assistant in Dentistry
¹ Stanisław H. Brzustowicz, B.S., D.D.S Assistant in Dentistry
JACK BUDOWSKY, D.D.S
THEODORE M. BUNDRANT, D.D.S Instructor in Dentistry
EDWARD A. CAIN, B.S., D.D.S Instructor in Dentistry
² NICHOLAS J. CAVA, D.D.S
NEAL W. CHILTON, B.S., D.D.S., M.P.H Lecturer in Dentistry
ADA R. CLARK, B.S., A.M., Ph.D Associate in Bacteriology
GEORGE B. CROZAT, D.D.S
KOURKEN A. DAGLIAN, B.S., D.D.S Assistant in Dentistry
ROBERT CYRIL DEVINE, B.S., D.D.S Instructor in Dentistry
FRANK E. DIXON, B.A., B.S., D.D.S Instructor in Dentistry
JOHN J. DOLCE, B.S., D.D.S
¹ David A. Dragiff, B.S., D.D.S Research Assistant in Dentistry
Samuel Berger Drellich, D.D.S Instructor in Dentistry
JOSEPH D. EBY, D.D.S Lecturer in Dentistry
JACOB FEINMAN, B.S., LL.B., D.D.S Instructor in Dentistry
JOSEPH E. FIASCONARO, B.S., D.D.S Instructor in Dentistry
BARBARA JANE FINK, R.D.H Assistant in Dental Hygiene
WALTER H. FORDHAM, JR., D.D.S Research Assistant in Dentistry
HERBERT PHILIP FRITZ, D.D.S Instructor in Dentistry
HERMAN GLADSTONE, B.S., M.D Instructor in Anatomy
BENJAMIN WILLIAM GLICK, B.S., A.M., M.D Instructor in Anatomy
EVELYN R. HANNON, R.D.H Assistant in Dental Hygiene
Axel Hanson
LEONARD HIRSCHFELD, A.B., D.D.S Instructor in Dentistry

On leave 1949–1950.
 On leave July 1 to December 31, 1949.

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John D. Hogan, B.S., D.D.S Instructor in Dentistry
Nicholas Ippolito, D.D.S
JAMES JAY, D.D.S
Joseph E. Johnson, D.D.S Lecturer in Dentistry
SOLOMON L. KATZ, D.D.S Research Assistant in Dentistry
Morris Kavelle, B.S., D.D.S Instructor in Dentistry
BERTRAM KLATSKIN, A.B., D.D.S Assistant in Dentistry
Stanley L. Lane, B.S., M.D., D.D.S Instructor in Oral Surgery
WILLIAM H. LEAK, D.D.S Curator of the Museum, Dental and Oral Surgery LECTURER INDER
JULIUS K. LITTMAN, M.D
Joseph Luban, B.S., D.D.S Research Assistant in Dentistry
JOHN J. LUCCA, A.B., D.D.S
HARRIET G. McCormick, A.M., Ph.D Lecturer in Dental Hygiene
CLARE K. MADDEN, D.D.S
IRWIN D. MANDEL, B.S., D.D.S Research Assistant in Dentistry
ARTHUR H. MERRITT, D.D.S., M.S., Sc.D Lecturer in Dentistry
John V. Mershon, D.D.S., D.Sc. (hon.) Lecturer in Dentistry
Henry Milch, A.B., M.D Instructor in Anatomy
WILLIAM MILLER, B.S., D.D.S Instructor in Dentistry
WILLIAM JOHN MILLER, A.B., D.D.S Instructor in Dentistry
STANLEY F. NIEF, A.B., D.D.S
Armand M. Oppenheimer, A.B., B.S., D.D.S Lecturer in Dentistry
MIRIAM C. PRITCHARD, B.A., M.D., Ph.D Lecturer in Dental Hygiene
Fred Rothenberg, D.M.D., D.D.S Instructor in Dentistry
Bobb Schaeffer, A.B., A.M., Ph.D Lecturer in Dentistry
Louis Laszlo Schwartz, B.S., D.D.S Lecturer in Dentistry
Boaz Shattan, A.B., D.D.S Instructor in Dentistry
HAROLD SHERMAN, B.S., D.D.S Instructor in Dentistry
Herbert F. Silvers, B.S., D.D.S Research Associate in Dentistry
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Franklin A. Squires, D.D.S Lecturer in Dentistry
GEORGE STEIN, M.D., D.M.D Research Associate in Dentistry
Leo Stern, Jr., A.B., D.D.S
WALTER W. STEVENS, D.D.S
FERDINAND A. STEWART, JR., A.B., D.D.S Instructor in Dentistry
HARRY STRUSSER, D.D.S Lecturer in Dentistry
BENJAMIN TENENBAUM, B.S., D.D.S Research Associate in Dentistry
WILLIAM A. THEMANN, D.D.S Instructor in Dentistry
¹ Joseph J. C. Thomson, D.D.S Assistant in Dentistry
FERDINAND A. TUOTI, D.M.D
WILLIAM A. VERLIN, A.B., D.D.S Instructor in Dentistry
CLIFFORD L. WHITMAN, D.D.S Instructor in Dentistry
GLENN H. WHITSON, D.D.S Instructor in Dentistry
Frederick F. Yonkman, A.B., Ph.D., M.D Lecturer in Pharmacology

CLINICAL ASSISTANTS

Aaron L. Ackerman, D.D.S., M.P.H. RALPH BECKER, B.S., D.D.S. HAROLD E. BRENNAN, D.D.S. SEBASTIAN A. BRUNO, D.M.D. Sol J. Ewen, B.S., D.D.S. Wesley Halpert, B.S., D.D.S. EDWARD HEIDT, D.D.S. STANLEY S. HELLER, B.S., D.D.S. ELLEN N. HOSIOSKY, D.M.D., D.H., ROBERT G. KROLL, D.D.S. AUSTIN H. KUTSCHER, A.B., D.D.S. ALEXANDER LEFF, D.D.S. SIMON L. LIFTON, A.B., D.D.S.

0 D George Minervini, A.B., D.D.S. Corre MELVIN MORRIS, B.S., A.M., D.D.S. 05 Howard B. Moshman, D.D.S. arit DAVID MOSSBERG, D.D.S. Res. HENRY I. NAHOUM, A.B., D.D.S. 05 JOHN D. PIRO, D.D.S. 05 NATHANIEL RATTNER, D.D.S. grade. Julian Schroff, B.S., D.D.S. arch Paul C. Sexauer, B.S., D.D.S. Walter G. Spengeman, A.B., D.D.S. brick IRWIN TEKULSKY, D.D.S. criho EDWARD E. TELTSCH, A.B., D.D.S. Br. 1-20 ENNIO L. UCCELLANI, D.D.S. 05 VINCENT D. VARALLO, B.S., D.D.S. DAVID ZEISLER, B.S., D.D.S.

PRESBYTERIAN HOSPITAL DENTAL SERVICE et stace, all

SAMUEL BIRENBACH, Director

Attending Dental Surgeons

Adolph Berger Moses Diamond HOUGHTON HOLLIDAY CARL R. OMAN

EDWARD S. LUBOJA, D.D.S.

GILBERT P. SMITH Lewis R. Stowe ARTHUR C. TOTTEN

¹ On leave July 1, 1949, to March 15, 1950.

Associate Attending Dental Surgeons

LESTER R. CAHN IRVIN L. HUNT, JR. SOLOMON N. ROSENSTEIN IOSEPH SCHROFF

Assistant Attending Dental Surgeons

OSCAR E. BEDER FRANK E. BEUBE EDWARD A. CAIN FRANK E. DIXON ALVIN S. NATHAN
WILLIAM J. SAVOY
EDWARD V. ZEGARELLI
ALBIN R. SEIDEL, Consultant

PRESBYTERIAN HOSPITAL ORAL SURGERY SERVICE

MAURICE J. HICKEY, D.M.D., M.D., Assistant Attending Surgeon STANLEY L. LANE, B.S., M.D., D.D.S., Assistant Attending Surgeon

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REGISTER OF STUDENTS

GRADUATES—CLASS OF JUNE, 1948

A.B., New York University, 1943 Auerbach, Gabriel Irving Springfield, Mass. B.S., Massachusetts State, 1941 Auslander, Irwin Howard New York University Baurmash, Harold Daniel B.S., New York University, 1945 Blanco-Dalmau, Luis Rio Piedras, Puerto Rico University of Puerto Rico University (N.Y.) Repolland Laurelton, N.Y. A.B., St. Peter's (N. J.), 1943 Maillard, Gene Charles Ridgewood, N. Y. Fordham; New York University New York University New York University New York University, 1943 Brooklyn, N.Y. Brooklyn, N.Y. Brooklyn, N.Y. Brooklyn, N.Y. Brooklyn, N.Y. Brooklyn, N.Y. A.B., Lafayette, 1942 Friedman, Jay Wolfe New York City New York Medical College, 1943 Rebhun, Lionel Earl College of the City of New York City Robinson, Danial Michael Malla, dene Charles Ridgewood, N. Y. Brooklyn, N.	Arslan, Paul New York City	Klickstein, Melvin Malden, Mass.
B.S., Massachusetts State, 1941 New York University Baurmash, Harold Daniel B.S., New York University, 1945 Blanco-Dalmau, Luis Rio Piedras, Puerto Rico University of New York City A.B., St. Francis' (N. Y.); Holve City A.B., Sc. College of the City of New York City A.B., St. Francis' (N. Y.); Howards, N. J. St. Francis' (N. Y.); Howar		
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Blugerman, John Mark A.B., Columbia, 1944 Breheny, John Martin Fordham Cacciola, Frank James Cacciola, Frank J		
A.B., Columbia, 1944 Breheny, John Martin Cacciola, Frank James Jackson Heights, N. Y. St. John's (N. Y.) Cava, Nicholas Joseph Long Island Poeseen, Kenneth Charles Queens; Massachusetts nology Delasho, James William B.S., Manhattan, 1943 Derevlany, Michael John A.B., Columbia, 1944 Disick, Donald Brooklyn Pengel, Walter Frederick, Jr. Wesleyan Englander, Harold Robert College of the City of New York; Washington (Mo.) Penning, Howard Rassler A.B., Lafayette, 1942 Friedman, Jay Wolfe North Carolina Goldwasser, Joseph Max Brooklyn; Union Halla, Paul Emil New York City Fordham; Cornell Jurka, Charles Edward A.B., St. Peter's (N. J.), 1943 Maillard, Gene Charles Ridgewood, N. Y. Fordham; New York University Mamer, Poavid University Mamer, David New York University, 1944 Miller, Harold New York City A.B., Long Island, 1939; M.S., New York City B.S., Long Island, 1939; M.S., New York City A.B., New York University, 1942 Pino, Rudolph Victor Brooklyn, N. Y. B.S., Fordham, 1943 Portale, Joseph Max A.B., Columbia, 1944 Brooklyn, N. Y. Brooklyn, N. Y. Brooklyn; Union Halla, Paul Emil New York City Fordham; Cornell Jurka, Charles Edward A.B., St. Peter's (N. J.), 1943 Maillard, Gene Charles Ridgewood, N. Y. Morew York University Mamer, David New York University Mamer, David New York University Mamer, David New York University Mand, Stanley Mervin New York University Mamer, David University Mand, Stanley Mervin New York University Mamer, David University Mand, Stanley Mervin New York University Mamer, David University Mamer, David University Mand, Stanley Mervin New York University Mand, Stanley Mervin New York University Mand, Stanley Mervin New York University Mand, Stanley Mervin N		
Breheny, John Martin Fordham New York City Fordham** New York City Fordham** St. John's (N. Y.) Cava, Nicholas Joseph Long Island **Poesen, Kenneth Charles Queens; Massachusetts Institute of Technology Delasho, James William Yonkers, N. Y. B.S., Manhattan, 1943 Derevlany, Michael John A.B., Columbia, 1944 Disick, Donald Brooklyn, N. Y. Brooklyn **Penning, Howard Rassler College of the City of New York; Washington (Mo.) **Fordham; Joy Wolfe New York City A.B., Lafayette, 1942 Friedman, Jay Wolfe Nord Crotnonon-Hudson, N. Y. Brooklyn; Union Halla, Paul Emil New York City Fordham; Cornell Jurka, Charles Edward **Croton-on-Hudson, N. Y.** **Brooklyn; Union **Tordham; College of the City of New York City Fordham; Cornell Jurka, Charles Edward **Croton-on-Hudson, N. Y.** **Maillard, Gene Charles Ridgewood, N. Y. Fordham; New York Leights, N. Y. Mand, Stanley Mervin Brooklyn, N. Y. New York University **Mand, Stanley Mervin Brooklyn, N. Y. New York University, 1944 **Mand, Stanley Mervin Brooklyn, N. Y. New York University **Mand, Stanley Mervin Brooklyn, N. Y. New York University **Mand, Stanley Mervin Brooklyn, N. Y. New York University **Mand, Stanley Mervin Brooklyn, N. Y. New York University **Mand, Stanley Mervin Brooklyn, N. Y. New York University **Mand, Stanley Mervin Brooklyn, N. Y. New York University **Mand, Stanley Mervin Brooklyn, N. Y. New York University **Mand, Stanley Mervin Brooklyn, N. Y. New York University **Mand, Stanley Mervin Brooklyn, N. Y. New York University **Mand, Stanley Mervin Mand, New York University **Mand, Stanley Mervin University **Man		
Fordham Cacciola, Frank James Jackson Heights, N. Y. St. John's (N. Y.) Cava, Nicholas Joseph Long Island 2Decesn, Kenneth Charles Queens; Massachusetts Institute of Technology Delasho, James William B.S., Manhattan, 1943 Derevlany, Michael John A.B., Columbia, 1944 Disick, Donald Brooklyn, N. Y. Brooklyn Englander, Harold Robert College of the City of New York; Washington (Mo.) 2Fenning, Howard Rassler A.B., Lafayette, 1942 Friedman, Jay Wolfe North Carolina Goldwasser, Joseph Max Brooklyn; Union Halla, Paul Emil New York Brooklyn Brooklyn; Union Halla, Paul Emil New York City Fordham; Cornell Jurka, Charles Edward Friedman, Jay Wolfe Fordham; Cornell Croton-on-Hudson, N. Y. Friedman, Septender, N. Y. New York University Mand, Stanley Mervin Brookly, N. Y. New York University, 1944 Mand, Stanley Mervin New York University, 1944 New York University, 1942 Pino, Rudolph Victor Brooklyn, N. Y. Brooklyn, N. Y. Brooklyn, N. Y. Brooklyn, N. Y. A.B., Lafayette, 1942 Friedman, Jay Wolfe Now York City New York University Haufe, Thomas Robert Fordham; Cornell Jurka, Charles Edward Freedman, Jay Wolfe New York City New York University New York University New York University New York University Stern, Eli Sheldon New York City New York City New York City New York City Stern, Eli Sheldon New York City New York City New York City New York City New York University; Yale University; Columbia New York City of New York City New York University New York City New York City New York City of New York City Ne		
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Cava, Nicholas Joseph Long Island 2Decsen, Kenneth Charles Queens; Massachusetts nology Delasho, James William B.S., Manhattan, 1943 Derevlany, Michael John A.B., Columbia, 1944 Disick, Donald Brooklyn, N. Y. Brooklyn Englander, Harold Robert College of the City of New York; Washington (Mo.) 2Fenning, Howard Rassler A.B., Lafayette, 1942 Friedman, Jay Wolfe North Carolina Goldwasser, Joseph Max Brooklyn; Union Halla, Paul Emil New York City How York City Homes York City Fordham; Cornell Jurka, Charles Edward Bethpage, N. Y. Glendale, N. Y. Glendale, N. Y. Glendale, N. Y. Institute of Tech- New York City Toethal, 1942 Friedman, 1943 Brooklyn, N. Y. Brooklyn, N. Y. Brooklyn, N. Y. Brooklyn, N. Y. A.B., Lafayette, 1942 Friedman, Jay Wolfe North Carolina Goldwasser, Joseph Max Brooklyn; Union Halla, Paul Emil New York City College of the City of New York, 1944 Brooklyn; Union Halla, Paul Emil New York City College of the City of New York City Hofstra; New York University Haufe, Thomas Robert Fordham; Cornell Jurka, Charles Edward Croton-on-Hudson, N. Y. Marmer, David Mailler, Harold New York University, 1942 Pino, Rudolph Victor Brooklyn, 1942 Pino, Rudolph Victor Brooklyn, N. Y. B.S., Fordham, 1943 Portale, Joseph Sebastian Ridgewood, N. J. Villanova Rasi, Howard Blades New York University, 1943 Rasi, Howard Blades New York City College of the City of New York City Robinson, Irwin Schnoll Jackson Heights, N. Y. Brooklyn, N. Y. Rest Part of University; Columbia New York City New York University; Columbia New York City College of the City of New York, New York City New		Mand, Stanley Mervin Brooklyn, N. Y.
Long Island 2Decsen, Kenneth Charles Queens; Massachusetts Rolledes; Massachusetts Rolledes, N. Y. Rolledes, M. S., New York University, 1942 Pino, Rudolph Victor B. S., Fordham, 1943 Rolledes, M. Y. Rolledes, M. S., New York University, 1942 Riddenova Rebassical Middleton, N. Y. Rolledes, M. S., New		
2Deesen, Kenneth Charles Queens; Massachusetts nology Delasho, James William B.S., Manhattan, 1943 Derevlany, Michael John A.B., Columbia, 1944 Disick, Donald Brooklyn 2Engel, Walter Frederick, Jr. Wesleyan Englander, Harold Robert College of the City of New York; Washington (Mo.) 2Fenning, Howard Rassler A.B., Lafayette, 1942 Friedman, Jay Wolfe North Carolina Goldwasser, Joseph Max Brooklyn; Union Halla, Paul Emil New York City Fordham; Cornell Jurka, Charles Edward Groton-on-Hudson, N. Y. Miller, Harold New York City Brooklyn, 1942 Pino, Rudolph Victor Brooklyn, N. Y. Brooklyn, N. Y. Brooklyn, N. Y. Brooklyn, N. Y. A.B., Lorg Island, 1939; M.S., New York University, 1942 Pino, Rudolph Victor Brooklyn, N. Y. Brosklyn, N. Y. Brosklyn, N. Y. A.B., New York University, 1943 Bronklyn, N. Y. A.B., Cornell, 1939 M.D., New York Medical College, 1943 Rebhun, Lionel Earl College of the City of New York Robinson, Irwin Schnoll Jackson Heights, N. Y. Brooklyn; Union Halla, Paul Emil New York City New York City Fordham; Cornell Jurka, Charles Edward Croton-on-Hudson, N. Y.		
Queens; Massachusetts Institute of Technology Delasho, James William Yonkers, N. Y. B.S., Manhattan, 1943 Derevlany, Michael John A.B., Columbia, 1944 Disick, Donald Brooklyn, N. Y. Brooklyn 2*Engel, Walter Frederick, Jr. Brooklyn, N. Y. Wesleyan Englander, Harold Robert College of the City of New York; Washington (Mo.) 2*Fenning, Howard Rassler A.B., Lafayette, 1942 Friedman, Jay Wolfe North Carolina Goldwasser, Joseph Max Brooklyn; Union Halla, Paul Emil New York City New York University Haufe, Thomas Robert Fordham; Cornell Jurka, Charles Edward Croton-on-Hudson, N. Y. B.S., Long Island, 1939; M.S., New York University, 1942 Brooklyn, N. Y. Brooklyn, N. Y. Brooklyn, N. Y. Brooklyn, N. Y. A.B., Lafayette, 1942 Friedman, Jay Wolfe New York City College of the City of New York City Brooklyn; Union Halla, Paul Emil New York City Fordham; Cornell Jurka, Charles Edward Croton-on-Hudson, N. Y. B.S., Long Island, 1939; M.S., New York University, 1942 Brooklyn in Bitker New York University, 1943 Rasi, Howard Blades Brooklyn, N. Y. A.B., Cornell, 1939 M.D., New York Medical College, 1943 Rebnun, Lionel Earl New York City College of the City of New York City Brooklyn Schapiro, Sidney New York City Hofstra; New York University; Yale University; Cornell University; Yale University Stern, Eli Sheldon New York City New York City Stern, Eli Sheldon New York City Stern, Ele Sheldon New York City Stern, Eli Sheldon New York City Stern, Ele Shern Peter Edward New York City Stern, Eli Sheldon New York City Stern, Ele Shern Peter Edward New York City Stern, Ele Shear New York City Stern, Ele Shear New York City Stern, Ele Shear New York City Stern, Eli Sheldon New York City Stern, Ele Shear New York City Stern, Eli Shear New York Cit		
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Hamilton Columbia	Hamilton	
Kantorowitz, Leo Providence, R. I. Uccellani, Ennio Louis New York City		
B.S., Providence, 1944 College of the City of New York: Cornell	B.S., Providence, 1944	
Klein, Harold Jacques New York City Zinn, Arthur, Ir San Diego, Calif	Klein, Harold Jacques New York City	
A.B., New York University, 1943 San Diego State; Notre Dame	A.B., New York University, 1943	

SEPTEMBER 9, 1948 TO JUNE 1, 1949

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FOURTH YEAR—CLASS	man a supplement of the same	Berg, Marc Louis	New York City
Andreozzi, Armando Edmo	ond	Cornell	37 37105
Brown; Tufts	Providence, R. I	Breuer, Jack M. A.B., Columbia, 1946	New York City
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¹ February 25, 1948. ² September 1, 1948.

Cook, Dana Ellsworth Tarrytown, N. Y. Massachusetts Institute of Technology; Colgate Docktor, John Paul Ellsworth, Pa. B.S., Pittsburgh, 1941; M.D., George Washington, 1943 Freedman, Leonard Irving Cedarhurst, N. Y. Wisconsin; New York University John, Hedda Maria New York City M.D., Prague (Czechoslovakia), 1925; D.D.S., 1933 Karlan, Frances Ross New York City B.S., Massachusetts Institute of Technology, 1942 Brooklyn, N. Y. Kurzius, George A.B., New York University, 1941 New York City Levin, Alex Elihu George Washington McAllister, Charles Bruce, Jr. Elmhurst, N.Y. B.S., Fordham, 1944 Popper, Alfred New York City M.D., Hamburg (Germany), 1934 New York City Prata, Raymond Louis B.S., Fordham, 1943 Richmond, Julius Kenrick Makepeace Georgetown, B. G. Queens College (British Guiana); Columbia Yanowitz, Bernard Malone, N. Y. St. Lawrence Alema 1950 1949 6 and THIRD YEAR-CLASS OF JUNE, 1950 Barlow, Carl Morton New York City A.B., New York University, 1946 Buslowe, Louis A.B., Yale, 1938 New Haven, Conn. Citron, Hyman Allan New York City B.S., College of the City of New York, 1946 Dowling, James Glenville Fairfield, Conn. Fordham; St. Lawrence Fitz-Gibbon, Francis John Holyoke, Mass. Providence College Furgang, Murray Pelham Manor, N. Y. College of the City of New York; St. John's (N. Y.); Fordham; New York University Harnett, William Watkins Englewood, N. J. Detroit; Hanover; Columbia Harris, Stanford New York City College of the City of New York; Gonzaga University; University of Washington Henrich, Edwin John New Rochelle, N. Y. New York University; Buffalo; Cornell Jacklyn, Herbert Barre New York City College of the City of New York Jenkins, Cornelius Willis New York City A.B., Lincoln, 1946 Jussim, Julius New York City B.S., College of the City of New York, 1938 Lemrow, Maynard Wesley Stratford, Conn. Westminster (Pa.); Bethany (W. Va.) Levine, Charles Lester New York City College of the City of New York; Wisconsin; Ohio; Michigan Loeffler, George Henry Jamaica, N. Y. Manhattan College McManus, Philip Patrick, Jr. New York City

A.B., Illinois, 1942

Menken, George Jackson Heights, N. Y. Cornell; Queens College Nebel, Arthur John, Jr. Elizabeth, N. J. Centre College; Columbia O'Loughlin, John Joseph Howard Beach, N. Y. B.S., Fordham, 1946 Pomerantz, Alan Saul Brooklyn, N. Y. A.B., Brown, 1946 Russo, Michael Archangel Elizabeth, N. J. B.S., Fordham, 1942 Savad, Sol Brooklyn, N. Y. A.B., Brooklyn, 1939 Schwartz, Stanley Irving Poughkeepsie, N. Y. A.B., Bard, 1945 Shapiro, Morton Louis Brooklyn, N. Y. B.S., Willamette, 1947 Sherr, Leonard Allen New York City College of the City of New York; Wisconsin Tansky, Joseph Brooklyn, N. Y. Brooklyn Tiernan, Vincent Clifford New York City B.S., Manhattan, 1942 Vairo, George Gerard New York City B.S., Fordham, 1942 Vogel, Howard Bernard New York City College of the City of New York; Bates; Rochester

SECOND YEAR-CLASS OF JUNE, 1951

Adams, Roger Pettingell Westbrook, Maine B.S., Bowdoin, 1946 Bruder, George Allan New York City B.S., College of the City of New York, 1945 Cohen, Eugene A. Brooklyn, N. Y. Brooklyn Friedman, Edward U. Hempstead, N. Y. Mt. Union; New York University Goulian, Dicran, Jr. Weehawken, N. J. Columbia Greenier, Robert David Orangeburg, N. Y. B.S., Fordham, 1941 Griffin, Edward Mitchell Mt. Vernon, N. Y. A.B., Dartmouth, 1947 Hershey, Robert New York City B.S., College of the City of New York, 1947 New York City Houser, William Wyman Yorkville, N. Y. Colgate Kutner, Philip Corona, N. Y. B.S., College of the City of New York, 1944 Machenberg, Stanley Ellis Stamford, Conn. B.S., Connecticut, 1943 Mellow, Emil Anthony Old Forge, Pa. Scranton Moschella, Joseph Staten Island, N. Y. A.B., Norwich, 1937 Murakami, Kenneth Kiyoshi Honolulu, T. H. Hawaii Murphy, James Gerard Arlington, N. J. Newark Murray, James Francis New York City A.B., Notre Dame, 1942 O'Connor, James Thomas Brooklyn, N. Y. A.B., St. Peter's (N. J.), 1947

B.S., New York University, 1940; A.M., 1942

Carle Place, N. Y.

O'Neill, Frank Deveraux

Pecora, Francis Nicholas New York City Leefer, Norman Harold A.B., Fordham, 1943 Platzer, Kenneth Martin A.B., Brooklyn, 1942 Brooklyn, N. Y. Rivera-Gonzalez, Victor M. Aibonito, Puerto Rico Louisiana State; Tennessee Syracuse, N. Y. Seidenberg, Leonard Syracuse Selinger, Jerome New Brunswick, N. J. Rutgers Silverstein, Harold Brooklyn, N. Y. A.B., Brooklyn, 1947 Storella, John Alfonse Boston, Mass. B.S., Massachusetts State, 1947 New York City Tolmach, Herbert A.B., New York University, 1947 Tripodi, Joseph John Tonawa Tonawanda, N. Y. B.S., St. Bonaventure, 1945; M.S., 1947 Worboys, Wilson Thomas New York City A.B., Houghton, 1940 FIRST YEAR-CLASS OF JUNE, 1952 ' Berger, Stephen R. Forest Hills, N. Y. Manhattan; B.S., Queens College, 1948 Carrucci, Carmine A. Bronx, N. Y. St. John's; B.S., Dickenson, 1948 DeFrancesco, Louis V. Stamford, Conn. B.S., Fordham, 1948 Astoria, N. Y. DeLisi, Joseph Charles College of the City of New York; Fordham Brooklyn, N. Y. Falevitch, Norman Calvin College of the City of New York; B.A., Hofstra, 1948 Brooklyn, N. Y. Fasano, Carmine Mario Dartmouth; B.S., Harvard, 1946; Brooklyn College Finder, Robert Byron New York City A.B., Columbia, 1948 Firdman, Marvin Bronx, N.Y. Brooklyn College; B.A., New York Univer-Elvers, Walter Barton

sity, 1948 Gilbert, Albert Kirven, Jr. Columbus, Ga. Georgia School of Technology; Emory Brooklyn, N. Y. Glass, Daniel B.S., College of the City of New York, 1948 Gliedman, Monroe Marvin New York City New York University; B.S., Massachusetts Institute of Technology, 1946 Gliedman, Richard New York City New York University; B.S., Massachusetts Institute of Technology, 1946 Guido, Matthew Gabriel West New York, N. J. Washington State; Columbia Helmer, Morvia Thomas Prospect, N. Y. Colgate; Utica College of Syracuse Kahan, Edward Bronx, N.Y. Ohio State; Columbia Kahan, Robert Bronx, N. Y. Ohio State; Columbia Kesseler, Edward Peter New York City Amherst Kessler, Harry Samuel Bronx, N. Y. B.A., Pennsylvania, 1948 Lai, Leonard J. L. Honolulu, Hawaii B.S., Hawaii, 1946

Rutgers Mason, David Newton, Jr. Scarsdale, N.Y. Wesleyan Moglia, Alfred Bill Morristown, N. J. Diploma of Classical Maturity, R. Convitto Nazionale, Parma, Italy, 1943; University of Parma Medical School; Hunter College Perry, Jerome Herbert Bronx, N. Y. B.A., New York University, 1948 Samuels, Thomas Edward Forest Hills, N. Y. Fordham Steiner, Robert Mark New York City A.B., Columbia, 1948 Sydow, Gunnar Eugene Hackensack, N. J. Texas; A.B., Colgate, 1948 VanBuren, Robert Harold New York City St. Lawrence Zimmerman, Frank, Jr. Hartford, Conn. Wittenberg; B.S., Trinity, 1948 POSTGRADUATE STUDENTS

Roosevelt, N. J.

CANDIDATES FOR THE CERTIFICATE OF TRAINING General Restorative Dentistry

Salamat, Khodabakhsh Tehran, Iran D.D.S., Tehran Dental College, 1943 Witek, John J. Greenfield, Mass. D.D.S., Northwestern Dental School, 1943

Oral Surgery

Shapiro, Robert L.
D.D.S., Columbia, 1946 Brooklyn, N. Y. Wade, George W. Washington, D. C. D.D.S., Howard School of Dentistry, 1947 Bronx, N. Y. Zeff, Seymour D.M.D., Louisville Dental School, 1944 Zuckerman, Lenard H. Yonkers, N. Y. D.M.D., Tufts Dental School, 1945

Orthodontics

Teaneck, N. J. D.D.S., Columbia, 1946 eldstein, Louis Chicago, Illinois D.D.S., Loyola College of Dental Surgery, Feldstein, Louis 1944 Gottlieb, Eugene Rockville Center, N. Y. D.D.S., Columbia, 1943 Brooklyn, N. Y. Gross, David J. D.D.S., New York University College of Dentistry, 1945 Hester, Howard C. Englewood, N. J. D.D.S., Maryland College of Dental Surgery, Englewood, N. J. 1944

Horowitz, Sidney L. Brooklyn, N. Y. D.D.S., New York University College of Den-Brooklyn, N. Y. tistry, 1945 Johnson, Reidar Conradi Tonsberg, Sweden D.D.S., Northwestern Dental School, 1948

Cleveland, Ohio Kerrigan, James P. D.D.S., Western Reserve School of Dentistry,

Loughlin, Francis J. Woodhaven, N. Y. D.D.S., New York University College of Dentistry, 1939

Rechter, Alfred New Hyde Park, N. Y. D.D.S., Columbia, 1946

Shwalb, Richard A. Brooklyn, N. Y.	SPECIAL STUDENTS
D.D.S., Columbia, 1945 Sirna, Lawrence E. D.D.S., Columbia, 1944 Taft, Leo L. D.D.S., Pennsylvania School of Dentistry, 1939 Telsey, Daubert Long Island City, N. Y. D.D.S., Columbia, 1947 Tucker, Joseph K. D.D.S., Pennsylvania School of Dentistry, 1944 Valinoti, Joseph R., Jr. D.D.S., Columbia, 1946 Brooklyn, N. Y. D.D.S., Columbia, 1946 Brooklyn, N. Y. D.D.S., Columbia, 1946	Berman, Maurice Samuel Capetown, South Africa L.D.S., R.C.S., Royal Dental Hospital of London Di Salvo, Nicholas Armand New York City D.D.S., Columbia, 1945; B.S., College of the City of New York, 1942 Ellison, Solon A. New York City B.S., Brooklyn, 1942; D.D.S., Columbia, 1946 Gorlin, Robert James Newark, N. J. D.D.S., Washington (Mo.), 1947; A.B., Columbia, 1945
Watkins, Harold E. Amarillo, Tex. D.D.S., Pennsylvania School of Dentistry,	Raebeck, William, Jr. Belle Harbor, N. Y. D.D.S., Columbia, 1947
Wein, Stanley L. Lawrence, N. Y. D.M.D., Tufts Dental School, 1946	Smith, David J. D.D.S., Columbia, 1944 Brooklyn, N. Y.
Weissman, Tobias New York City	SUMMARY
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Butler, Frank M., Jr. Sylvester, Ga. D.D.S., Emory, 1947	First Year—Class of June, 1952 28
Halik, Frederick Joseph Rochester, N. Y.	Candidates for Certificates in Training 29
A.B., Rochester, 1944; D.D.S., Buffalo, 1946 Shaw, Jerry D. Shanghai, China	Special Postgraduate Students 6
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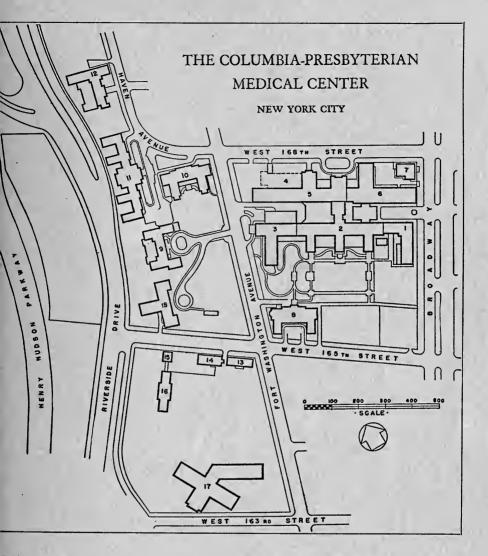
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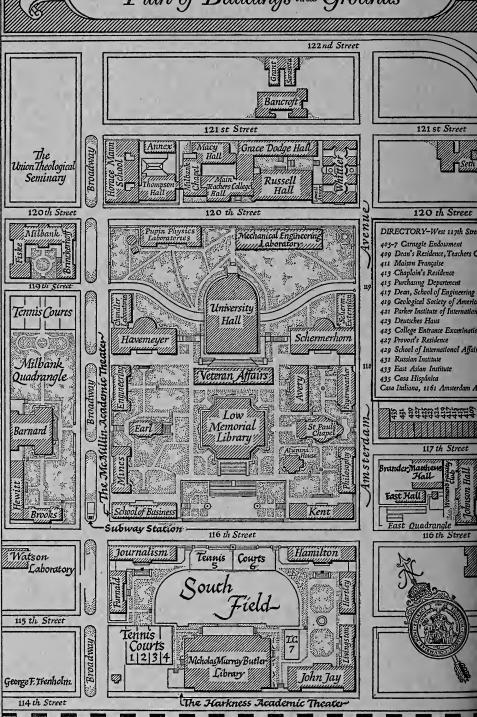
School of Dental and Oral Surgery

Washington Heights Health and Teaching Center, N. Y. City Dept. of Health

School of Public Health

- 8. Institute of Ophthalmology
- 9. Maxwell Hall
- 10. Neurological Institute
- 11. N. Y. State Psychiatric Institute and Hospital
- 12. Bard Hall
- 13, 16. Storage
- 14. Shops
- 15. Housing
- Francis Delafield Hospital (under construction),
 N. Y. City Dept. of Hospitals
- 18. Edward S. Harkness Memorial Hall

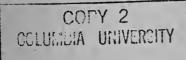
Plan of Buildings and Grounds 122nd Street



COLUMBIA UNIVERSITY BULLETIN OF INFORMATION

Fiftieth Series, No. 34

September 16, 1950



HEALTH SCIENCES ANNOUNCEMENT OF THE

SCHOOL OF DENTAL AND

ORAL SURGERY

OF THE

FACULTY OF MEDICINE

1950-1951



COLUMBIA-PRESBYTERIAN MEDICAL CENTER
630 WEST 168TH STREET · NEW YORK 32, N.Y.

Columbia University Bulletin of Information

Fiftieth Series, No. 34

September 16, 1950

Issued at Columbia University, Morningside Heights, New York 27, N. Y., weekly from January for forty-five consecutive issues. Re-entered as second-class matter July 11, 1950, at the Post Office at New York, N. Y., under the Act of August 24, 1912. Acceptance for mailing at a special rate of postage provided for in Section 1103, Act of October 3, 1917, authorized.

The series includes the Report of the President to the Trustees and the Announcements of the several Colleges and Schools relating to the work of the next year. These are made as accurate as possible, but the right is reserved to make changes in detail as circumstances require. The current number of any of these Announcements will be sent upon application to the Office of University Admissions.

C. U. P. 8,000—1950.

COMMUNICATIONS

All communications regarding the School of Dental and Oral Surgery, application for admission, and appointments for personal interviews should be addressed to the School of Dental and Oral Surgery, 630 West 168th Street, New York 32. N. Y.; telephone Wadsworth 3–2500.

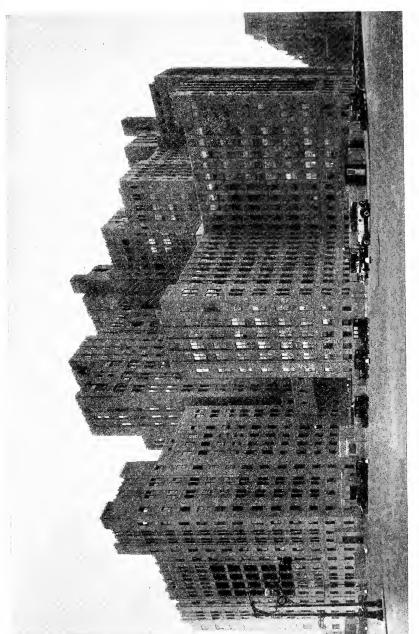
ANNOUNCEMENTS

The Announcements of each College or School and of the Summer Session may be obtained without charge from the Office of University Admissions.

Letters requesting more detailed information than is contained in this Announcement and all correspondence regarding admission should be addressed to the Dean, School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y.

PRINTED FOR THE UNIVERSITY BY
COLUMBIA UNIVERSITY PRESS





THE MEDICAL CENTER, INCLUDING THE SCHOOL OF DENTAL AND ORAL SURGERY WING AT THE RIGHT

Columbia University in the City of New York

ANNOUNCEMENT OF THE

SCHOOL OF DENTAL AND ORAL SURGERY

OF THE

FACULTY OF MEDICINE



1950-1951

COLUMBIA-PRESBYTERIAN MEDICAL CENTER
630 WEST 168TH STREET
NEW YORK 32, N.Y.

FORM OF BEQUEST

To the Trustees of Columbia University in the City of New York I give and bequeath the sum of \$...., to be used by said Trustees for the uses and purposes of said Corporation.

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CONDENSED ACADEMIC CALENDAR

1950

September 7 Thursday, to September 9, Saturday. Registration, including payment of fees.

September 11 Monday. Classes begin.

November 7 Tuesday. Election Day. Holiday.

November 23 Thursday. Thanksgiving Day. Holiday.

November 25 Saturday. End of first trimester.

November 27 Monday. Beginning of second trimester.

December 17 Sunday, to

1951

January 1 Monday, inclusive. Christmas Holidays.

February 12 Monday. Lincoln's Birthday. Not a University Holiday.

February 16 Friday. Dean's Day. Not a University Holiday.

February 22 Thursday. Washington's Birthday. Holiday.

February 24 Saturday. End of second trimester.

February 26 Monday. Beginning of third trimester.

March I Thursday. Last day for filing application for degrees.

March 18 Sunday, to March 25, Sunday, inclusive. Easter Holidays.

May 19 Saturday. Last day of classes.

May 21 Monday, to June 2, Saturday. Final examinations.

May 30 Wednesday. Memorial Day. Holiday.

June 7 Thursday. Conferring of degrees.

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3

year terks vice from the ans

FACULTY OF MEDICINE

DWIGHT DAVID EISENHOWER, LL.D. President of the University WILLARD COLE RAPPLEYE, A.M., M.D., Sc.D. Vice President in Charge of Medical Affairs; Dean of the Faculty of Medicine MAURICE J. HICKEY, M.D., D.M.D. Associate Dean (Dental and Oral Surgery) HAROLD W. BROWN, A.B., M.S., Sc.D., M.D., D.P.H. Acting Associate Dean (Public Health) ELEANOR LEE John Bacchus Truslow, A.B., M.D. Assistant Dean (Graduate Studies)

THE FACULTY

I. BURNS AMBERSON DANA W. ATCHLEY FRANK B. BERRY IAMES BORDLEY HAROLD W. BROWN CHARLES L. BUXTON GEORGE F. CAHILL A. BENSON CANNON decd 11/27/50 E. GURNEY CLARK HANS T. CLARKE MARGARET E. CONKAD WILFRED M. COPENHAVER D. Anthony D'Esopo SAMUEL R. DETWILER IOHN H. DUNNINGTON EARL T. ENGLE IOHN W. FERTIG THOMAS P. FLEMING IOSEPH E. FLYNN EDMUND P. FOWLER, JR. Angus M. Frantz VIRGINIA K. FRANTZ ALFRED GILMAN Ross Golden LEONARD J. GOLDWATER Magnus I. Gregersen ALEXANDER B. GUTMAN

Cushman D. Haagensen

FRANKLIN M. HANGER, IR.

GEORGE H. HUMPHREYS, II

MICHAEL HEIDELBERGER

4 Maurice J. Hickey

HOUGHTON HOLLIDAY

YALE KNEELAND, JR.

Nolan D. C. Lewis ROBERT F. LOEB IRVILLE H. MACKINNON ₹ EWING C. McBeath DONOVAN I. McCune Rustin McIntosh MONROE A. McIVER H. Houston Merritt EDGAR G. MILLER, IR. IOHN L. NICKERSON WILLIAM BARCLAY PARSONS GEORGE A. PERERA I. LAWRENCE POOL WILLARD C. RAPPLEYE DICKINSON W. RICHARDS, JR. HENRY ALSOP RILEY WALTER S. ROOT HARRY M. ROSE BEATRICE C. SEEGAL Aura E. Severinghaus LAWRENCE W. SLOAN ALAN DE FOREST SMITH " GILBERT P. SMITH HARRY P. SMITH PHILIP E. SMITH ISIDORE SNAPPER ≠ Lewis R. Stowe HOWARD C. TAYLOR JOHN B. TRUSLOW KENNETH B. TURNER HARRY B. VAN DYKE THEODORE J. C. VON STORCH JEROME P. WEBSTER

ABNER WOLF

COMMITTEE ON DENTAL EDUCATION

MAURICE J. HICKEY, Chairman

SAMUEL BIRENBACH OCCA 1/25/50

HANS T. CLARKE

SAMUEL R. DETWILER

MAGNUS I. GREGERSEN

HOUGHTON HOLLIDAY

BARNET M. LEVY

EWING C. McBeath

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GILBERT P. SMITH

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LEWIS R. STOWE

ARTHUR C. TOTTEN

HARRY B. VAN DYKE

WILLARD C. RAPPLEYE, ex officio

JOHN B. TRUSLOW, ex officio

ADMINISTRATIVE STAFF

AT SCHOOL OF DENTAL AND ORAL SURGERY

Lucia Klemovich								. Assistant to the Registrar
THOMAS P. FLEMING, M.S			٠,					Librarian

¹ On leave until March 15, 1951.

THE SCHOOL OF DENTAL AND ORAL SURGERY

Columbia University was founded in 1754 as King's College by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The Revolutionary War interrupted its active work, but in 1784 it was reopened as Columbia College. In 1912 the title was changed to Columbia University in the City of New York.

From its inception, the program of dental education in Columbia University has been fostered by and associated with the University's School of Medicine. The Faculty of Medicine at its stated meetings of November and December, 1915, recommended to the Trustees that a Dental School be established in the University on "University Lines."

The President of the University in his annual report of 1916 informed the Trustees that "during the year a group of men have come forward with a well-supported proposal that there be established in connection with the Medical School, a school for the training of dental surgeons." The President also reported that "the project was carefully formulated and presented to the Medical Faculty and received the formal approval of that Faculty and later of the Trustees."

In May, 1916, the University issued a pamphlet entitled A Dental School on University Lines. In this pamphlet the University stated its intent to establish a school of dentistry in affiliation and coordination with the School of Medicine. The pamphlet's introductory statement outlined the University's policy for dental education which has been consistently followed:

Dentistry and Dental Education are on the threshold of extraordinary development but are unable to take advantage of their opportunities because of the traditional separation of dentistry and medicine. Dentistry has been shown by recent investigations and research to be logically a branch of general medicine.

In the fall of 1917 James N. Jarvie gave a substantial sum to a fund "to found and maintain the proposed dental school of the University, described in the pamphlet entitled *A Dental School on University Lines* issued by Columbia University, May 1916."

In September, 1916, students in dentistry were admitted to courses in Columbia University at the School of Medicine. On March 5, 1917, the Trustees of the University established a school of dentistry as of September 27, 1916, and from that date the School became an integral part of the University. On March 1, 1920, the dental building adjacent to the School of Medicine and Vanderbilt Clinic was finished and assigned to the use of this school.

On July 1, 1923, the College of Dental and Oral Surgery of New York (organized in 1905) was merged with the School of Dentistry, and the combined institutions named the School of Dental and Oral Surgery of Columbia University. By this merger Columbia acquired two large buildings, at 302–306 East 35th Street and 309–315 East 34th Street, in which the School was housed up to the time of moving into the Medical Center.

The merging of the schools did not alter the University's policy for dental education. In the 1923–1924 Announcement of the School of Dental and Oral Surgery this policy was reaffirmed by the statement, "It is the purpose of the School of Dental and Oral Surgery to combine in the highest degree practicable a sound knowledge of the fundamentals of medicine with adequate training in the technical procedures of dental science and arts."

In September, 1928, the School was moved to the Columbia University-Presbyterian Hospital Medical Center. The dental department of the School occupies the three upper floors of the Vanderbilt Clinic wing, a net floor area of forty thousand square feet. The fundamental science subjects, which are given to both dental and medical students, are taught in the adjoining College of Physicians and Surgeons, the corridors of the two schools being continuous. In adjacent wings, the halls of which are also continuous with those of the School, the wards and outpatient departments of the Presbyterian and associated hospitals are located, thus giving the closest possible contact and association with all branches of health service. The Dental School clinic includes as one of its functions

the dental care of the patients of the Medical Center hospitals.

In order to strengthen the instruction of dental and medical students and to fulfill a further step in the integration of dental education and research with the medical program at the Columbia-Presbyterian Medical Center which was visualized when the Dental School was made a part of the Center in 1928, the Faculties of the two schools were merged July 1, 1945. This Faculty is responsible for the educational programs in Medicine, Dentistry, Public Health, Nursing, Graduate and Postgraduate Medical and Dental Education. A Committee on Dental Education, established by University statute, of which a majority shall be from the Department of Dental and Oral Surgery and of which the Associate Dean for Dental and Oral Surgery shall be the chairman, will initiate recommendations to the Faculty on the qualifications and admission requirements for dental students, the curriculum of instruction, the candidates for the degree of Doctor of Dental Surgery, and other educational matters dealing with dentistry.

The course in dentistry covers four academic years leading to the degree of Doctor of Dental Surgery. The greater part of the first two years of the curriculum is taken in the fundamental science departments of instruction in the University which are integral parts of the College of Physicians and Surgeons and the School of Dental and Oral

Surgery.

REQUIREMENTS FOR ADMISSION, PROMOTION AND GRADUATION

ADMISSION TO FIRST YEAR OF THE SCHOOL OF DENTAL AND ORAL SURGERY

Application.—It is desirable that candidates make application during the academic year preceding that in which they seek admission. It is not necessary to complete the academic requirements before making application. However, all requirements must be completed before matriculation. Application blanks will be furnished by the Office of the Committee on Admissions of the School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y.

The minimum requirement for admission to the first-year class is the satisfactory completion of three full years at an acceptable college of arts and sciences, which must include the satisfactory completion of the following courses required by the New York

State Board of Regents:

ate Board of Regents.		Semester Hours
English composition and literature		. 6
Physics		. 6
Biology		. 6
Chemistry (including an approved course in organic chemistry)		. 12

A point or semester hour is the equivalent of one hour of lecture or recitation plus two hours of home work or three hours of laboratory work per week, per semester. Suitable laboratory work must be included in each of the courses in science.

Inasmuch as an understanding of the biological sciences is based upon the knowledge of the underlying sciences of chemistry, physics, and biology, students are urged, so far as time permits, to take additional courses in quantitative, qualitative, physical, and organic chemistry, physics, comparative anatomy and other advanced courses in biology, as well as courses in mathematics, German and French, sociology, history, and other subjects of general cultural and scientific value. Courses in fine and industrial arts are also useful.

Owing to the limited number of students who can be accommodated, completion of the requirements for entrance does not guarantee admission. The entire predental record of each student is carefully examined by the Committee on Admissions in order that those who are adjudged most capable of meeting the exacting demands of the course and of the profession of dentistry may be selected. Preference will be given in the selection of students to those who present to the Committee on Admissions evidence of high achievement in selected college courses of special predental value and who, in the opinion of the Committee on Admissions, are most likely to succeed in dentistry, rather than to those who present the largest number of course credits or those who have limited their preparation to the prescribed subjects. Acceptance of a student for admission is based on grounds of character and health, as well as on the fulfillment of academic requirements.

An acceptance fee of \$50 is payable within ten days after notification of acceptance (see page 11).

COMBINED COURSES

Combined Courses with Columbia College.—Upon receiving ninety-four points credit, sixty-four of which must be for work in Columbia College, including all the work prescribed for the degree of Bachelor of Arts in Columbia College, a student may take studies in the first year of the School of Dental and Oral Surgery, provided he can satisfy the stated requirements and is accepted for admission therein, and will receive the degree of Bachelor of Arts from Columbia College upon the satisfactory completion of the year's work. No course may be counted toward a professional degree and at the same time be included among those which go to make up the ninety-four points referred to above.

Combined Courses with Barnard College.—Students from Barnard College may exercise the professional option after the completion of ninety points of academic work, including all grouped work and a major of twenty-eight points unless this number is reduced in individual cases by special permission of the Committee on Instruction of Barnard College.

Combined Courses with the School of General Studies.—Students from the School of General Studies may exercise the professional option after the completion of ninety-four points, including all the courses prescribed for the Bachelor of Science degree, not less than sixty-four of which have been received for work in Columbia University.

Combined Courses in Dentistry and Medicine.—It is usually possible for a graduate of a registered medical school with the degree of Doctor of Medicine to meet the requirements of the School and receive the degree of Doctor of Dental Surgery by the satisfactory completion of a special two-year course, which may include one summer session.

ADMISSION OF FOREIGN STUDENTS

The State Department of Education has special requirements with which students who are not citizens of this country must comply. Any foreign student desiring to apply to the School of Dental and Oral Surgery should communicate with the Dean.

REGISTRATION

Before attending University courses, every student must present himself at the office of the Registrar and file a registration blank giving such information as may be required. The periods set aside for registration in each session are stated in the Academic Calendar at the beginning of this Announcement. Registration at a later date is permitted only on the written permission of the Dean, satisfactory cause for the delay having been shown.

FEES

The University Statutes provide that tuition fees, the University fee, and laboratory deposits are payable semiannually in advance. No reduction is made for late registration. Registration will not be complete until such fees are paid. Checks should be drawn to the order of Columbia University and presented in person or mailed to the office of the Bursar. Payment of fees after the last day of registration (see the Academic Calendar) imposes automatically the statutory charge of \$3.00 for this privilege. Under the regulations, the privileges of the University are not available to any student until he has completed his registration.

The fees to be paid by students are subject to change at any time at the discretion of the Trustees.

	he following annual fees are prescribed for dental students:
(a)	University Fee
	For all students for one academic year, or for any part thereof, payable in two installments
(b)	Tuition Fee
	For the course in dentistry for one academic year (or equivalent) in the case of a student enrolled for the full course, payable in two installments
(c)	Fee for Application
	For a degree
(d)	Privileges
	1. Late registration or late application for a degree or for deficiency or special
	examinations
	2. Deficiency or special examinations
	3. Renewal of application for any degree
(e)	Student Activities (payable annually)
	For all students, Dental Abstracts Journal

(f) Student Health Service Fee

This fee will be used to pay the annual premium of the Associated Hospital Service of New York for hospital insurance and to pay part of the cost of the student health service.

(g) Case Rental

(h) Rebates

- The University fee and the fee for application for any degree shall not be subject to rebate.
- 2. No tuition fee shall be returned for any course which the student may for any reason discontinue. Exception to this rule may be made only in cases of total withdrawal from the University, when a partial return of fees may be authorized by the Registrar.

When a rebate is allowed for the discontinuance of courses or withdrawal from the University, such rebate will be reckoned from the day upon which the Registrar receives notice from the student.

Required of each student to cover material and breakage in the laboratories and clinic. The deposit for breakage includes apparatus to replace broken articles or articles not returned at the close of the course; any chemicals not in the kit of chemicals supplied to each student, or additional quantities of chemicals beyond this allowance; and service in washing apparatus or work by a mechanic. Refund of any balance will be made upon the completion of the prescribed course or withdrawal from the School.

Acceptance Fee.—Within ten days after an applicant has been notified that his application has been accepted, he must notify the Dean that he intends to matriculate and accompany his communication with a check or money order for \$50, payable to Columbia University. This acceptance fee will belong to the University and if the applicant does not register at the School for the specific session, it will not be returned. If he registers at the School at the next enrollment of entering students, the amount of the acceptance fee will be deducted from his tuition fees for that session.

Fees for Repeated Courses.—Students obliged to repeat the work for any year are required to pay the full tuition fee.

DENTAL EQUIPMENT

Instruments and Supplies.—Each student is required to supply himself with instruments as specified in the official instrument list. The purchase from the University of instruments in original package outfits has been made compulsory, and unauthorized or incomplete equipment will not be accepted by the instructors. All technique material and regular supplies must be purchased from the University upon order from the instructor. The students will not be allowed to purchase more than is required to complete a case. The quantity and quality are selected with a view to the best possible results and conservation of the student's best interests.

Microscopes.—All students entering the School of Dental and Oral Surgery are required to provide themselves with microscopes of a satisfactory type. A microscope of standard make fitted with the following attachments will fill the requirements:

- a. Triple nosepiece.
- b. Abbe condenser.
- c. 10x and 6x oculars.
- d. 16 mm. and 4 mm. objectives.
- e. Oil immersion lens.

Lockers.—Each student will be assigned a locker on entering and will be required to use a combination lock as prescribed by the School.

ESTIMATED EXPENSES

Following is an itemized estimate of the average expenses of a full-time student for an academic year in the School of Dental and Oral Surgery exclusive of travel, clothing, amusements, charity, organizations, and sundries. These items are, of course, variable but should not be overlooked in estimating the total expense. The tuition, room, board, books, and laundry figures are based upon the rates which prevailed during 1949–1950 and can be accepted as applicable in general for the year 1950–1951 unless national economic changes require their alteration.

												$A\iota$	verage	Mii	imum
Tuition an	d I	Jn	iver	sity	fee	s.						\$	770	\$	770
Miscellane	ous	s fe	es										55		30
Room .													330		190
Board .													385		350
Books .													150		115
Instrument	ts	(se	e b	elov	v)								325		325
Laundry .													75		35
												\$ 2	.,000		.815

These estimates are subject to correction as the basic prices of supplies and instruments change. Instruments are to be paid for at the opening of the academic year. The cost of books will vary, depending upon the choice made from the selection offered.

STUDENTS

Each person whose registration has been completed will be considered a student of the University during the session for which he is registered unless his connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the consent of the appropriate dean or director.

Students prevented by conscientious scruples from complying with academic requirements which may be fulfilled only upon days set apart by their church for religious observance should make application to the Dean for an equitable solution.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of

any certificate are strictly subject to the disciplinary powers of the University, which is free to cancel his registration at any time on any grounds which it deems advisable. The disciplinary authority of the University is vested in the President in such cases as he deems proper, and, subject to the reserved power of the President, in the dean of each faculty and the director of the work of each administrative board.

WITHDRAWAL

An honorable discharge will always be granted to any student in good academic standing and not subject to discipline who may desire to withdraw from the University; but no student under the age of twenty-one years shall be entitled to a discharge without the assent of his parent or guardian furnished in writing to the proper dean. Students withdrawing must notify the Registrar immediately.

The Dean of the School may, for reasons of weight, grant a leave of absence to a stu-

dent in good standing.

REQUIREMENTS FOR PROMOTION

1. A student may be admitted to the second, third, or fourth year of the dental curriculum only upon the recommendation of the class officers of instruction under which he has studied during the preceding year.

2. The School of Dental and Oral Surgery reserves the right to refuse readmission or promotion to any student who is believed for any reason to be unsuited to the conditions

of study in this school.

Students are classified for readmission or promotion under the following headings:

- I. Recommended for advancement.
- II. Recommended for readmission to the same class.
- III. Recommended neither for advancement nor for readmission to the same class:
 - a) Because of failure.
 - b) Those who fall under paragraph 2 of rules for advancement of students.

GRADING OF STUDENTS

The following grade equivalents are used: A, excellent; B, good; C, fair; F, failure.

REQUIREMENTS FOR GRADUATION

In addition to complying with the requirements for admission and to completing the required work of the curriculum, each candidate for the degree of Doctor of Dental Surgery must present satisfactory evidence as required by law of good moral character and of having attained the age of twenty-one years. If the candidate shall have been admitted to advanced standing, he must have spent not less than four academic years or their equivalent in approved medical or dental colleges in the study of the subjects making up the curriculum of the School of Dental and Oral Surgery.

GRADUATION

Commencement occurs in June, at which time all recipients of degrees awarded during the academic year are expected to attend the exercises unless excused. Diplomas are issued in June or at various times during the year.

No degree will be granted to a student who has not registered for and attended at the University courses of instruction equivalent to at least one academic year of full-time work.

An application for a degree or certificate, other than the several doctoral degrees, terminates at the next regular time for the issuance of diplomas subsequent to the date of filing; but under conditions prescribed by the respective faculties it may be subject to renewal for a fee of \$1.00 each time that a candidate chooses to come up for consideration, within a period not to exceed three years. Thereafter with the filing of a second application the regular fee is again payable—\$20 in the case of a degree and \$10 in the case of a certificate.

Dates for the filing of applications are given in the Academic Calendar at the beginning of this Announcement.

COURSES FOR DENTAL HYGIENISTS

In September, 1947, the period of training for dental hygienists was increased from one to two academic years. On October 21, 1947, the University Council approved the establishment of the degree of Bachelor of Science to be conferred upon students who, having been admitted on the basis of two years of approved college study covering not less than sixty points in liberal arts subjects (including satisfactory courses in English, biological science or chemistry, and sociology or psychology), complete the course of instruction in the field of Dental Hygiene, consisting of two academic years of study, prescribed by the Faculty of Medicine.

Candidates for admission must be women between the ages of eighteen and thirty-five years and must present a record of good health. All candidates are required to make formal application in writing on blanks supplied by the School. After the application has been submitted, the academic record of the candidate should be sent to the School at the request of the candidate. Wherever possible, a personal interview is required

before the candidate is accepted.

Applicants must satisfy the following requirements: Two years of sixty semester hours of credit in liberal arts from a college or university approved by Columbia University. The following subjects are required:

							ى	emester Hours
English								6
Biological science or chemistry	٠.							3
Sociology or psychology								3

Upon the successful completion of the two-year curriculum in dental hygiene, the Bachelor of Science degree will be conferred.

Applicants who lack not more than eight credits for the sixty credits required for admission will be considered for matriculation on the condition that the eight credits be earned during the Summer Session between the Junior and Senior years.

For further information address the Dean, School of Dental and Oral Surgery, 630

West 168 Street, New York 32, N. Y.

SHORT COURSES FOR GRADUATES IN DENTISTRY

The School of Dental and Oral Surgery arranges courses in the various divisions of dentistry to meet the needs of groups of practitioners. In 1950–1951 short refresher courses will be offered in various subjects in accordance with demand.

Admission requirements include graduation from an approved dental school and licensure to practice dentistry within the United States or a foreign country. There is no degree or certificate offered for these specially arranged courses. For further information see the Announcement of Postgraduate Courses for Dentists, which may be obtained from the Dean, School of Dental and Oral Surgery.

CERTIFICATE OF TRAINING

The School of Dental and Oral Surgery is authorized to grant certificates of training in special branches of dentistry. The course of study for the certificate of training includes not less than thirty credits of special work in the clinical branches of dentistry approved by the Dean. At present, an organized fifteen months' course is offered to qualified graduates in dentistry who wish to prepare for specialization in orthodontics. Advanced courses leading to certificates of training are also offered in general restorative dentistry; oral diagnosis and roentgenology; oral surgery; pedodontics; and periodontology. For further information see the Announcement of Postgraduate Courses for Dentists, which may be obtained from the Committee on Postgraduate Admissions, School of Dental and Oral Surgery.

GRADUATE COURSES IN THE BASIC SCIENCES

A limited number of fellowships are available to graduates of dental schools acceptable to Columbia University. These fellowships offer opportunity for study in the following basic science departments of the University: Anatomy, Bacteriology, Biochemistry, Pathology, Pharmacology, and Physiology. For further information regarding qualifications and stipend, address the Dean, School of Dental and Oral Surgery.

COURSES LEADING TO THE DEGREE OF DOCTOR OF PHILOSOPHY

Graduation from accredited dental schools under the present curriculum of four academic years preceded by three acceptable predental college years is considered by the Graduate Faculties of Columbia University as meeting the general requirement for admission. There are additional admission requirements in certain departments. A student who is accepted by the Graduate Faculties as a candidate for the degree of Doctor of Philosophy and who holds the Doctor of Dental Surgery degree from Columbia University may, with the consent of the Dean, offer the work done for the professional degree in lieu of thirty points toward the fulfillment of the resident requirement for the degree. For further information see the Announcement of the Faculty of Pure Science, which may be obtained from the Office of University Admissions, Columbia University, New York 27, N. Y.

PUBLIC HEALTH FOR DENTISTS

A one-year course leading to a Master of Public Health degree is offered by the School of Public Health. The course is open to graduate dentists. For further information regarding course content, registration, and fees, apply to the Director, School of Public Health, 600 West 168th Street, New York 32, N. Y.

LICENSE TO PRACTICE DENTISTRY IN NEW YORK STATE

Those desiring to take the New York State Board examinations are advised to address the Bureau of Professional Education, New York State Department of Education, 23 South Pearl St., Albany 7, New York. All applications for admission to the examinations should be completed at least fifteen days before the examinations begin.

The examinations are conducted by the Department, and answer papers are read and marked by the Board, who know the candidate only by number. The subjects of the licensing examinations are anatomy, chemistry and metallurgy, operative dentistry and radiography, therapeutics and materia medica, physiology and hygiene, oral surgery, pathology and bacteriology, prosthetic dentistry, and histology. The operative and prosthetic subjects are divided into theory and practice. The minimum standing required in each subject is 75 percent.

The State Department of Education will admit conditionally to the examinations in anatomy, physiology, chemistry and metallurgy, and histology, applicants over nineteen years of age who are of good character, who are citizens of the United States or have declared the intention of becoming citizens in accordance with the law, and who are certified as having successfully completed the first two years of the required course in

a registered dental school.

PLAN OF INSTRUCTION

The curriculum is arranged with the object of providing the student with the necessary opportunities for acquiring a knowledge of the fundamental sciences in relation to dentistry and the techniques of approach in dental problems. Beginning in the first two academic years with a study of the basic sciences, particularly anatomy, biochemistry, bacteriology, pathology, pharmacology, and physiology, the student prepares himself for an understanding of the problems to be encountered in his later clinical work. The third and fourth academic years are devoted to mastering the methods of diagnosis and treatment of patients and acquiring a knowledge of disease patterns and the arts and skills required in preventing, curing, or controlling them.

Throughout the entire course an effort is made to interrelate the different phases of the dental learning by means of "correlative" and "combined" clinics in which the various departments and divisions cooperate in the discussion and demonstration of the same and related problems and thus treat the study of dentistry as a unit rather than a series of isolated branches of learning. At the same time an attempt is made to individualize instruction and to place responsibility as far as practicable upon the student for his own training. This is accomplished by means of the division of classes into small sections, conferences, and the comprehensive case method of instruction.

CURRICULUM

1950-1951

Subject*	Trimester Credits	Lecture or Seminar Hours	Lab. or Clinic Hours	Total Hours
FIRST YEAR				
Anatomy				
Embryology 152 F	. 2	19		19 ·
Gross 151 FS	12	50	223	273 V
Microscopic 150 FS	6	42	126	168~
Neuro 153 T	4	30	36	66 🗸
Oral 101 ST	. 5	19	117√	136
Biochemistry 150 ST		39	117	156
Histology, Oral 115 ST	. 5	26	52	78
Physiology 150 FS	. 11	56	156	212
Theory and Practice				
Dental History 287 T	ı	10		10
	54			1,118

^{*} Letter following course number designates trimester: F = first, S = second, and T = third.

Subject*	Trimester Credits	Lecture or Seminar Hours	Lab. or Clinic Hours	Total Hours
SECOND YEAR				
Bacteriology 151 F and 152 F	7	43	99	142
Crown and Bridge 105 ST	6.	10	165	175
Dental Materials 126 FS	3	10	56	66
Operative Dentistry 131 FST	9	20	201	221
Oral Hygiene 122 T	2	20		20
Pathology 150 FS	10	54	140	194
Periodontology 151 T	1	• •	33	33
Pharmacology 150 ST	6	54	33	87
Prosthetic Dentistry 157 FST	9	20	206	226
Psychiatry 150 S	I	11		II
Theory and Practice				
Dental History 283 F		10		10
Therapeutics 286 T		10		10
	56			1,195
THIRD YEAR				
Anatomy, Applied 252 S	1	10		10
Crown and Bridge				
Technique 205 F	3		8o	80
Clinic 206 ST	5	10	113	123
Applied Occ. Dynamics 212 T	ī		30	30
Diagnosis 212 FST	4	30	30	60
Operative Dentistry 233 FST	10	10	258	268
Orthodontics 241 F	3	20	60	80
Pathology, Oral 246 FS	4	20	60	80
Periodontology 251 S	ī		30	30
Practice of Medicine 278 ST		40	22	62
Prosthetic Dentistry 260 FST and 261 FST.	8	20	165	185
Radiology 267 F		10	14	24
Surgery, Oral 270 F	2	10	30	40
<i>a</i> ,,,	48			1,072
FOURTH YEAR	-			-/-/-
Crown and Bridge 210 FST and 211 FST.	6	10	160	170
Diagnosis 213 F	1		30	30
Diagnosis Seminar 214 S	3		30	30
Diagnosis 215 T (continuation of 214)	1 1	10		10
Orthodontics 243 FST	ı		30	30
Operative Dentistry 234 FST	12	20	308	328
Pedodontics 202 FST	4	10	88	98
Periodontology 252 FS and 253 FS	3	20	30	50
Prosthetic Dentistry 263 FST and 264 FST.	6	10	159	169
Public Health 222 S	2	20		20
Surgery, Oral 272 FST	6	40	6o	100
Surgery Seminar 274 T				100
Surgical Prosthesis 265 S	ı		30	30
Theory and Practice	1		٥٠	30
Ethics 281 F	ı	10		10
Jurisprudence 282 T		10	• •	10
Comprehensive 285 T		10		10
	47			1,095

^{*} Letter following course number designates trimester: $F \equiv$ first, $S \equiv$ second, and $T \equiv$ third.

COURSES OF INSTRUCTION

For purposes of instruction the work of each academic year is scheduled in three sessions of eleven weeks each, which are designated as First, Second, and Third Trimesters. The unit of credit signifies approximately three academic hours of work a week for one session. For lecture courses this represents one hour a week in class and two hours of homework. For laboratory or clinical work it represents approximately three academic hours of work a week in the School.

For a detailed statement of the content of each course, the student is referred to the departmental statements which follow.

The outline on pages 17 and 18 shows the work required of a candidate for the degree of Doctor of Dental Surgery. The University reserves the right to make such changes in the program of studies at any time as experience may prove desirable.

ANATOMY

Anatomy 101—Oral anatomy. Freshman year. 5 credits.

Lectures on gross anatomy of the teeth and related tissues. Laboratory reproduction of individual teeth in wax. Setting up teeth in occlusion. Restoring anatomy of carious teeth in wax and macroscopic study of structural parts of teeth.

Anatomy 115—Oral histology and embryology. Freshman year. 5 credits.

Lectures and laboratory work on growth and development of the jaws and face; microscopic anatomy of the teeth and surrounding and related tissues of the oral cavity. Application of this knowledge to technical dentistry.

Anatomy 150-Microscopic anatomy. Freshman year. 6 credits.

Lectures, conferences, and laboratory.

This course is the same as Anatomy 101F in the Medical School.

Anatomy 151—Gross anatomy. Freshman year. 12 credits.

Lectures, conferences, and laboratory.

Anatomy 152-Embryology. Freshman year. 2 credits.

Lectures and demonstrations dealing with the dynamics of vertebrate development, with particular reference to mammals and man.

Anatomy 153-Neuroanatomy. Freshman year. 4 credits.

Lectures and demonstrations on the gross anatomy, structure, and functions of the central nervous system. This course is equivalent to *Anatomy 106S* in the Medical School.

Anatomy 252—Applied anatomy of the head and neck. Junior year. 1 credit.

Lectures and demonstrations. A review course with special application to the problems of the major fields of dentistry.

BACTERIOLOGY

Bacteriology 151—General medical bacteriology and immunology. Sophomore year. 4 credits.

Lectures, conferences, and laboratory.

Bacteriology 152—Principles of bacteriology, epidemiology, infection, immunity, serum diagnosis, and specific therapy. Sophomore year. 3 credits.

This course is identical with *Bacteriology 105F* in the Medical School except that lectures on the mouth bacteria are substituted for several of those of the medical series.

BIOCHEMISTRY

Biochemistry 150—Introductory biochemistry. Freshman year. 8 credits.

Lectures and laboratory. A study of the chemistry of life processes with special reference to the animal organism.

DENTAL MATERIALS

Dental Materials 126—Physical properties of dental materials. Sophomore year. 3 credits.

Lectures and laboratory on the physical and chemical properties of the metals and other materials used in dentistry, with clinical applications.

DIAGNOSIS

Diagnosis 212—Dental diagnosis lecture and clinic. Junior year. 4 credits.

Lectures, conferences, and clinical practice in oral examination and charting, history-taking, methods of pulp testing, dental X-ray diagnosis, oro-dental symptomatology, and occlusal disharmonies.

Diagnosis 213-Dental diagnosis clinic. Senior year. 1 credit.

Continuation of clinic of Diagnosis 212.

Diagnosis 214—Diagnosis seminar. Senior year. 3 credits.

Discussion and differential diagnosis of selected cases.

Diagnosis 215—Diagnosis seminar. Senior year. 1 credit.

Continuation of Diagnosis 214.

MEDICINE

Medicine 278—General survey of medicine. Junior year. 5 credits.

Lectures and conferences covering phases of general medicine pertinent to dentistry and clinics for small groups in which the patients are studied for correlation of systemic and dental conditions.

OPERATIVE DENTISTRY

Operative Dentistry 131—Elements of operative dentistry. Sophomore year. 9 credits.

Lectures on the fundamentals of operative dentistry. Technical procedures in the filling of teeth, the study of dental materials, and introduction to clinical practice.

Operative Dentistry 233—Operative clinical practice. Junior year. 10 credits.

Lectures on the application of operative fundamentals to clinical practice. The technique of porcelain inlay construction. Clinical practice and demonstrations.

Operative Dentistry 234—Advanced operative clinical practice. Senior year. 12 credits.

A continuation in lectures and clinic of *Operative Dentistry 233* with the consideration of special problems in operative practice, including root-canal therapy.

ORAL HYGIENE

Oral Hygiene 122—Oral hygiene lectures. Sophomore year. 2 credits.

Lectures and conferences on scientific findings related to the etiology and prevention of dental caries and diseases of the periodontium.

ORTHODONTICS

Orthodontics 241—Principles of orthodontics. Junior year. 3 credits.

Lectures and laboratory. Orthodontic fundamentals with special emphasis on prevention in orthodontics by the early recognition and correction of the predisposing factors. Laboratory time devoted to the designing and constructing of removable appliances used as space maintainers, habit breakers, and to correct tooth alignment in preparation for restorative dentistry and treatment of periodontal conditions. Clinical practice in the use of appliances constructed in the laboratory.

Orthodontics 242-Orthodontic clinic. Junior year. No credit.

Clinical orthodontics.

Orthodontics 243—Orthodontic clinic. Senior year. 1 credit.

Orthodontics 242 continued in the Senior year.

PATHOLOGY

Pathology 150—General and special pathology. Sophomore year. 10 credits.

A study of important pathological conditions, demonstrated by museum specimens and a very complete series of histological preparations.

Pathology 246—Oral pathology. Junior year. 4 credits.

Lectures, conferences, and laboratory work on the diseases of the jaws, mouth, and teeth.

Pathology 247—Oral pathology seminar. Senior year. No credit. Elective.

Conferences on the clinical application of oral pathology.

PEDODONTICS

Pedodontics 202—Pedodontics lectures and clinic. Senior year. 4 credits.

Lectures and conferences on operative dental procedures for children, management of child dental patients, and the application of present knowledge of dental development and preventive dentistry. Clinical work includes history-taking, prophylaxis, and restorative procedures adapted to deciduous and early permanent dentitions.

PERIODONTOLOGY

Periodontology 151—Periodontia clinic. Sophomore year. 1 credit.

Lectures and clinics on dental prophylactic technique and early disturbances of the periodontium.

Periodontology 251—Periodontia clinic. Junior year. 1 credit.

Lectures and clinics in the diagnosis and treatment of periodontal diseases.

Periodontology 252—Periodontology lectures. Senior year. 2 credits.

Lectures and conferences on the theory and practice of periodontology.

Periodontology 253—Periodontia clinic. Senior year. 1 credit.

Work in clinics in the diagnosis and treatment of advanced periodontal diseases.

PHARMACOLOGY

Pharmacology 150—Pharmacology. Sophomore year. 6 credits.

Lectures, conferences, and laboratory. In this course the pharmacological action of drugs on man and lower animals is studied.

PHYSIOLOGY

Physiology 150-Mammalian physiology. Freshman year. 11 credits.

Lectures, conferences, and laboratory.

PROSTHETIC DENTISTRY

Prosthetics 105—Crown and bridge lectures and technique. Sophomore year. 6 credits.

Lectures on the technical procedures in crown and bridgework, with practical application, and the construction of bridges and crowns on technique models.

Prosthetics 157—Prosthetic lectures and technique. Sophomore year. 9 credits.

Lectures and technical procedures in full and partial denture construction.

Prosthetics 205—Crown and bridge lectures and technique. Junior year. 3 credits.

Lectures on the technical procedures in crown and bridgework, with practical application, and the construction of bridges and crowns on models and extracted teeth.

Prosthetics 206—Crown and bridge clinic. Junior year. 5 credits.

Clinical construction of elementary crown and bridgework.

Prosthetics 210—Crown and bridge lectures. Senior year. 1 credit.

Lectures and conferences on various types of bridgework.

Prosthetics 211—Crown and bridge clinic. Senior year. 5 credits.

Clinical construction of crown and bridgework.

Prosthetics 212—Applied occlusal dynamics. Junior year. 1 credit.

Lectures, demonstrations, and technique stressing the relationship of occlusal deformities, both natural and acquired, to oral physiology. Correlation of all factors involved in the corrective and restorative procedures.

Prosthetics 260—Prosthetic lectures. Junior year. 2 credits.

Examination, classification, application of anatomical considerations, and clinical procedure in full and partial denture construction.

Prosthetics 261-Prosthetic clinic. Junior year. 6 credits.

Clinical construction of full and partial dentures.

Prosthetics 263—Prosthetic clinic. Senior year. 5 credits.

Clinical construction of full and partial dentures.

Prosthetics 264—Prosthetic lectures. Senior year. 1 credit.

A series of lectures by outstanding local practitioners in the prosthetic field on clinical considerations in partial denture diagnosis, design, and construction.

Prosthetics 265—Surgical prosthesis. Senior year. 1 credit.

Lectures and technical procedures in maxillofacial and surgical prosthesis.

PSYCHIATRY

Psychiatry 150—Psychopathology. Sophomore year. 1 credit.

Lectures in psychobiology; the growth and instinctive and emotional development of the individual from birth to adulthood; personality traits and patterns; personality factors in physical illness; types of abnormal behavior based on brain pathology, on functional processes, or on habit disturbances, with clinical demonstrations. Principles of mental hygiene and environment adjustments.

PUBLIC HEALTH

Public Health 222—Principles of public health. Senior year. 2 credits.

Survey course in the theory and practice of preventive medicine, dentistry, and public health. Fundamental principles of administration, statistics, epidemiology, industrial hygiene, and sanitation. The principles and problems of dental public health practice are emphasized.

Public Health 223—Epidemiology and biostatistics. Senior year. Elective. Six hours a week for 8 weeks.

A lecture and laboratory course in introductory vital statistics. Offered to Seniors who are eligible for electives.

RADIOLOGY

Radiology 267—Oral radiology practice. Junior year. 1 credit.

Lectures, readings, and discussions on topics relative to oral radiology. Practice in exposing, processing, and mounting dental radiographs.

SURGERY

Surgery 270—Oral surgery. Junior year. 2 credits.

Lectures, seminars, demonstrations, and clinical practice on local anesthesia and the removal of teeth.

Surgery 272—Oral surgery. Senior year. 6 credits.

Lectures and conferences on oral and maxillofacial surgery and general anesthesia.

Clinical practice in local anesthesia and the removal of teeth. Clinical demonstrations in the diagnosis and operative procedures in the treatment of diseases, injuries, and malformation about the face, jaws, and oral cavity.

Surgery 274—Oral surgery seminar. Senior year. No credit. Required.

Lectures and seminars in diagnosis and treatment-planning in the field of oral surgery. Case presentaion.

THEORY AND PRACTICE OF DENTISTRY

Theory and Practice 281—Dental ethics and practice management. Senior year. I credit.

Lecture and conference course on dental ethics, economics, office conduct, and practice management.

Theory and Practice 282-Dental jurisprudence. Senior year. No credit.

Lecture and conference course in dental jurisprudence.

Theory and Practice 283—Dental history. Sophomore year. 1 credit.

Lecture and conference course in dental history.

Theory and Practice 285—Comprehensive case. Senior year. No credit.

Each student is assigned a case for which he performs all the dental services: taking of x-ray negatives, treatment planning, surgery, and reparative and restorative procedures. The services are carried out in the various clinical divisions, where grades are entered for the student toward the fulfillment of his clinical requirements. The oral examination accompanying the inspection of the completed case aims to correlate the teaching of the entire course.

Theory and Practice 286—Therapeutics. Sophomore year. 1 credit.

Lectures and conferences on drugs and other therapeutic agents used in dentistry. Formerly *Pharmacology* 250.

Theory and Practice 287—Dental History. Freshman year. 1 credit.

Lecture and conference course in dental history.

TEXTBOOKS

The following list includes most of the books normally used. As a rule, only the latest editions of the textbooks should be purchased. Students are warned against buying any books until specifically advised by the departments concerned.

Anatomy. Gross anatomy: One of the following three: Stedman, Gould, or American, Medical Dictionary; Cunningham, Manual of Practical Anatomy, Vols. II and III; mimeographed Dissecting Directions; one of the following three: Grant, Atlas of Anatomy; Truex and Kellner, Detailed Atlas of the Head and Neck; or Spalteholz, Hand Atlas of Human Anatomy.

Applied anatomy: Shapiro, Applied Anatomy of the Head and Neck (2d ed.).

Embryology: One of the following three: Arey, Developmental Anatomy; Hamilton, Human Embryology; or Patten, Human Embryology.

Microscopic anatomy: Bailey, Textbook of Histology (12th ed.); mimeographed laboratory manual.

Neuroanatomy: Strong and Elwyn, *Human Neuroanatomy*; mimeographed laboratory manual.

Oral anatomy: Diamond, Dental Anatomy.

Oral histology and embryology: Orban, Oral Histology and Embryology.

Bacteriology: Jordan and Burrows, Textbook of Bacteriology (15th ed.); or Dubos, Bacterial and Mycotic Infections of Man; and Rivers, Viral and Rickettsial Infections of Man; and Laboratory Manual in Medical Bacteriology and Immunology.

Biochemistry: Harrow, Textbook of Biochemistry (5th ed.); Karshan, Laboratory Manual of Biochemistry for Dental Students.

Dental Ethics and Practice Management: McGehee and Walker, Dental Practice Management.

Dental Therapeutics: Council on Therapeutics, American Dental Association, Accepted Dental Remedies.

Diagnosis: Ziskin et al., Differential Diagnosis (1st ed.); Ziskin, Pulp Symptomatology (1943 ed.).

Medicine: Yater, Fundamentals of Internal Medicine (3rd rev. ed.); Grossman, Root Canal Therapy.

OPERATIVE DENTISTRY: Black, Operative Dentistry, Vols. II and III; Operative Dentistry Syllabus.

ORAL PATHOLOGY: Cahn, Pathology of the Oral Cavity.

ORTHODONTICS: Salzman, Principles of Orthodontics.

PATHOLOGY: One of the following four: Boyd, Textbook of Pathology; Karsner, Textbook of Pathology; Moore, Textbook of Pathology; or Anderson's Pathology.

Pedodontics: McBride, Juvenile Dentistry (4th ed. or later).

Periodontology: Goldman, Periodontia.

- Pharmacology: One of the following four: Gaddum, *Pharmacology;* Goodman and Gilman, *Pharmacological Basis of Therapeutics* (1941); Sollman, *Pharmacology;* or Oldham, Kelsey, and Geiling, *Essentials of Pharmacology.*
- Physiology: One of the following four: Wiggens, Physiology in Health and Disease (5th ed.); Fulton, Textbook of Physiology (16th ed.); Starling, Human Physiology (10th ed.); or Best and Taylor, Physiological Basis of Medical Practice (1950); and Physiology Laboratory Manual.
- PROSTHETIC DENTISTRY: Skinner, Science of Dental Materials; Swenson, Complete Dentures; Tylman, Crown and Bridge Prothesis; United States Government Printing Office, Physical Properties of Dental Materials; Young et al., Syllabus on Complete Dentures.
- PSYCHIATRY: Noyes, Modern Clinical Psychiatry; Cobb, Foundations of Neuro-psychiatry (3d rev. ed., 1944).
- RADIOLOGY: McCall and Wald, Clinical Dental Roentgenology (2d ed.).
- Surgery: Berger, Principles and Technique of Oral Surgery; Berger, Principles and Technique of the Removal of Teeth; Parker, Synopsis of Traumatic Injuries of the Face and Jaw; Homan, Textbook of Surgery.
- Surgical Prosthesis: O. E. Beder, Surgical and Maxillofacial Prosthesis (1st ed.).

STUDENT ORGANIZATIONS

OMICRON KAPPA UPSILON

Epsilon Epsilon chapter of Omicron Kappa Upsilon, national honorary fraternity, was chartered in the School of Dental and Oral Surgery in 1934. The purpose of this organization is to recognize and honor a maximum of 12 percent of the members of the graduating Senior class, based on scholarship, character, and possession of potential qualities for future professional growth and attainments.

THE WILLIAM JARVIE SOCIETY

The William Jarvie Society for Dental Research is a nonsecret, dental honor society, membership in which is based upon scholarship and interest in dental research, and to which Sophomores, Juniors, and Seniors are eligible. The society was organized in the School of Dental and Oral Surgery in 1920 and named after Dr. William Jarvie because of his wide interest in the promotion of dental research. The society aims to promote the spirit of research among the students.

"DENTAL ABSTRACTS"

Dental Abstracts is an official publication of the School of Dental and Oral Surgery of the Faculty of Medicine, written and published by the Dental Abstracts Society, an undergraduate organization. This periodical is issued four times yearly and is received by libraries, hospitals, dental, medical, and public health schools, organizations, and individuals throughout the world.

With the active guidance and cooperation of the officers of instruction of the School, undergraduate students read and abstract the current dental and related literature for publication in this journal. Undergraduate participation in this program is urged not only to assure continuation of this worthy project but, more important, to acquaint the student intimately with the recent advances in dental science and to gain sound principles toward the proper evaluation of the current literature.

REGISTRATION OF STUDENT ORGANIZATIONS

Blanks for the registration of student organizations, other than those for which the responsibility is assumed by a faculty or department of instruction, may be obtained at the room assignment desk in the office of the Registrar.

Such student organizations come under the jurisdiction of the Committee on Student Organizations of the University Council and may be granted the privileges of (a) the use of names in which the name of the University is embodied or suggested, and (b) the use of University rooms or grounds for meetings and bulletin boards for announcements, only if they have filed their registration blanks, furnishing the committee with lists of officers and other executive members, statements of purposes, copies of constitutions and bylaws, and information concerning the nature of any affiliation or connection with non-University organizations.

FACILITIES

LIBRARY

The Library occupies part of the three lower floors in the College building. It provides current literature (both books and journals) for faculty and students and it aids in research through its own collections of current and historical works and through its

unique bibliographical service.

The Library contains approximately one hundred fifty thousand volumes of books and journals, some five thousand pamphlets and about two thousand lantern slides on the history of medicine. More than 1700 periodicals are received regularly. A professional library staff is available to aid students, faculty, and research workers in the Schools of Medicine, Dentistry, Nursing, Public Health, and the hospitals of the Medical Center.

The Library is normally open:

Monday-Fr	ida	y				8:30 A.M10:00 P.M.
Saturday						9:00 а.м 6:00 р.м.
Sunday .						12 NOON- 6:00 P.M.

University Libraries.—The libraries on Morningside Heights are open to all students of dentistry, and books may be borrowed for home use. They include collections on anatomy, biochemistry, public health, nursing, and other subjects related to dentistry and supplement the special collections available in the College of Physicians and Surgeons and in the New York Academy of Medicine, Fifth Avenue at 103d Street. The library of the College of Pharmacy, 115 West 68th Street, is also open to students in the School of Dental and Oral Surgery.

UNIVERSITY PRIVILEGES

All students enrolled in the Dental School enjoy the privileges and facilities of the University campus, including access to the University libraries, Gymnasium, and other activities.

University Gymnasium.—The Gymnasium is situated on Morningside Heights and is open daily, except on Sundays and holidays. Students of the School of Dental and Oral Surgery may enjoy its privileges and have the use of the Gymnasium, baths, and private lockers.

STUDENT HEALTH SERVICE

Daily office hours are held by the Student Health Service in Room 2-220 of the Vanderbilt Clinic. Members of the Health Service are available to attend ill students if they live near the Medical Center. Students requiring hospitalization will be taken care of either in the wards of the Medical Center under an insurance policy of the Associated Hospital Service of New York or elsewhere under the terms of its policy.

All entering students are required to have a dental examination in the School and

to have all necessary dental work completed prior to graduation.

RELIGIOUS LIFE

The life of the University community finds religious expression through St. Paul's Chapel and Earl Hall and through the ministry of the Chaplain and those associated

with him in his work. The Chaplain of the University, the Rev. James A. Pike, is assisted by three Religious Counselors: the Rev. Samuel J. Wylie, Counselor to Protestant Students; the Rev. John K. Daly, Counselor to Roman Catholic students; and Rabbi Isidor B. Hoffman, Counselor to Jewish students.

Daily services are held in the Chapel, and students are urged to familiarize them-

selves with the schedules which are conveniently posted.

A number of student religious organizations are established to which the Chaplain and Counselors serve as advisers and with which students are cordially urged to affiliate themselves.

The Chaplain and the Counselors are especially eager to establish warm personal relations with students and to meet them in consultation, at the Chapel or in their offices in Earl Hall.

UNIVERSITY RESIDENCE HALLS

The Men's Residence Halls, located on the 116th Street Campus, house unmarried men students. For further information write direct to the Residence Halls Office, Room 125, Livingston Hall, Columbia University, New York 27, N. Y.

Johnson Hall, a residence hall for graduate women students, is available for unmarried women students on a room and board basis. For further information write to the Head of Johnson Hall, Columbia University, New York 27, N. Y.

KING'S CROWN HOTEL

The King's Crown Hotel, 420 West 116th Street, in close proximity to the University, is owned by the University. It provides accommodations at reasonable rates, available for relatives and guests of members of the University community.

INTERNATIONAL HOUSE

International House, while not a University Residence Hall, is primarily a residence for students at Columbia University and other colleges and universities in New York city. It offers comfortable accommodations at reasonable rates. For further information, write directly to International House, 500 Riverside Drive, New York 27, N. Y.

MEDICAL CENTER BOOKSTORE

The Medical Center Bookstore, located on the second floor of the College of Physicians and Surgeons, is maintained for the convenience of the students and staff of the Medical Center schools and hospitals. The store carries a full stock of textbooks and all other student supplies. Substantial savings are effected whenever the rules of manufacturers and publishers permit. The store is open on weekdays from 8:45 a.m. to 5:30 p.m.; Saturdays, 8:45 a.m. to 1:30 p.m.

A GUIDE TO COLUMBIA UNIVERSITY

A description of the grounds and buildings of the University will be found in *A Guide to Columbia University*, published by Columbia University Press. The book also contains an account of the University's history and traditions.

FELLOWSHIPS, SCHOLARSHIPS, AND PRIZES

Recipients of University financial aid in excess of tuition, whether in the form of fellowships, scholarships, or other grants, will be asked to reside in the University Residence Halls unless exempted by the appropriate Dean with the approval of the

President upon the presentation of adequate reasons for living elsewhere.

Two Ellis Fellowships are awarded annually to qualified graduates of any of the colleges of recognized rank in the state of Vermont. The holders of these fellowships may pursue resident graduate studies under any one of the graduate schools maintained by the University, and are eligible for reappointment for not more than two additional years, with the proviso that a holder of the fellowship who is a student in medicine may be eligible for reappointment for not more than three additional years. The annual stipend is \$1,600. Applications should be submitted on or before March 1 on blanks to be filed with the Office of University Admissions.

See also "Graduate Courses in the Basic Sciences" on page 15.

The Van Woert Scholarship Fund was established by the alumni of the School of Dental and Oral Surgery in 1940. The award is given annually to a Senior student in the dental school who stands high in scholastic attainments, in personal character, and in potentiality of being a credit to Columbia University and the dental profession.

A prize known as the Ella Maria Ewell Medal is awarded annually to that student of the School of Dental and Oral Surgery who, in the judgment of the Faculty, is most

proficient in some subject of dentistry.

The Alumni Association makes an annual award of the Rowe-Wiberg Medal to the Senior student who has shown the greatest proficiency in prosthetic dentistry.

An annual award is made by the Sigma Epsilon Delta Fraternity to the graduating student who, in the opinion of the Faculty, shows the greatest promise.

An annual prize for excellence in pedodontics has been established by the Class of

929.

The staff of the Division of Operative Dentistry has established an annual prize for excellence in operative dentistry.

STUDENT AID

Loan funds are provided in limited amount for the assistance of students. Application for loans should be filed during the month preceding the session for which they are requested.

STUDENT EMPLOYMENT

Owing to the heavy schedule of the Dental School, it is difficult for dental students to undertake outside part-time work during the academic year and, so far as practical, other financial arrangements should be made.

THE ASSOCIATION OF THE ALUMNI OF THE SCHOOL OF DENTAL AND ORAL SURGERY

President, Nathaniel Diner President-elect, John T. Flynn Vice President, Hannah Appel Secretary, Herman Malter Treasurer, Joel Friedman Editor, Lester Schoen

Any graduate, former student, officer of instruction, or administrative officer of the School of Dental and Oral Surgery is eligible to membership in the Association of the Alumni of the School of Dental and Oral Surgery of Columbia University .

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OFFICERS OF INSTRUCTION

HAROLD ALEXANDER ABRAMSON Assistant Clinical Professor of Physiology A.B., Columbia, 1920; M.D., 1923.
THOMAS HUNTER ALLEN
Virginia Apgar
EDMUND APPLEBAUM Associate Professor of Dental Anatomy D.D.S., New York College of Dentistry, 1922.
HENRY ARTHUR BARTELS Assistant Professor of Dental Pathology B.S., Rhode Island State, 1917; B.S., Columbia, 1925; D.D.S., 1927.
OSCAR E. BEDER
Adolph Berger William Carr Professor of Oral Surgery D.D.S., New York College of Dentistry, 1909; F.A.C.D., 1929.
FRANK E. BEUBE Associate Clinical Professor of Dentistry L.D.S., D.D.S., Toronto, 1930.
Samuel Birenbach
HAROLD WILLIAM BROWN . Acting Associate Dean (Public Health); Acting Director, School of Public Health; Professor of Parasitology A.B., Kalamazoo, 1924; M.S., Kansas State, 1925; Sc.D., Johns Hopkins, 1928; M.D., Vander- bilt, 1933; D.P.H., Harvard, 1936.
JACK BUDOWSKY Assistant Clinical Professor of Dentistry D.D.S., Columbia, 1943.
LESTER RICHARD CAHN Associate Professor of Dental Pathology D.D.S., New York College of Dentistry, 1917.
EDWARD A. CAIN, JR
LOUIS J. CIZEK
E. Gurney Clark
HANS THACHER CLARKE
LOUIS ALEXANDER COHN Assistant Clinical Professor of Dentistry D.D.S., Pennsylvania, 1926.
WILFRED MONROE COPENHAVER

¹ On leave until March 15, 1951. ² On leave until October 6, 1950.

32 COLUMBIA UNIVERSITY
SAMUEL RANDALL DETWILER
ADOLPH ELWYN
EARL THERON ENGLE
JOHN WILLIAM FERTIG
Morris Fierstein Assistant Clinical Professor of Dentistry D.D.S., Columbia, 1921.
Joseph E. Flynn
HARRY ALLEN GALTON Assistant Clinical Professor of Dentistry D.D.S., Columbia, 1932.
Alfred Gilman
LEONARD J. GOLDWATER
JOHN E. GORRELL Associate Professor of Hospital Administration B.S., Chicago, 1926; M.B., Northwestern, 1929; M.D., 1930.
WILSON C. GRANT
Magnus Ingstrup Gregersen Dalton Professor of Physiology A.B., Stanford, 1923; A.M., 1924; Ph.D., Harvard, 1930.
JOHN M. HENDERSON
ROBERT E. HERLANDS
MAURICE J. HICKEY Associate Dean (Dental and Oral Surgery);
D.M.D., Harvard, 1932; M.D., Columbia, 1937.
George W. Hindels Assistant Clinical Professor of Dentistry M.D., Vienna, 1938; D.D.S., Columbia, 1943.
HOUGHTON HOLLIDAY
IRVIN LELAND HUNT, JR
CLAUS WASHINGTON JUNGEBLUT
¹ MAXWELL KARSHAN

¹ On leave September 1, 1950, to January 31, 1951.

- Daniel M. Kollen Assistant Clinical Professor of Dentistry D.D.S., New York University, 1924.

- GEORGE FRANK LINDIG Associate Clinical Professor of Dentistry D.D.S., Minnesota, 1924.
- SAUL MISHELOFF Assistant Clinical Professor of Dentistry D.D.S., Columbia, 1922.
- ALVIN S. NATHAN Assistant Clinical Professor of Dentistry D.D.S., Columbia, 1926; B.S., New York University, 1935; A.M., 1938.

- WILLIAM MITCHELL ROGERS Assistant Professor of Anatomy B.S., Georgia, 1921; Ph.D., Cornell, 1927.

- SAUL SCHLUGER Assistant Clinical Professor of Dentistry D.D.S., Louisville, 1931.

	34 COLUMBIA UNIVERSITY
	HARRY H. SHAPIRO
	WILLIAM H. SILVERSTEIN Assistant Clinical Professor of Dentistry D.D.S., Maryland, 1937.
V	GEORGE K. SMELSER
	GILBERT PERCIVAL SMITH
V	HARRY PRATT SMITH Delafield Professor of Pathology A.B., California, 1916; M.S., 1918; M.D., 1921.
V	PHILIP EDWARD SMITH
	Leo Stern, Sr
	FRANCES A. STOLL
	Lewis Riddell Stowe
	David Tanchester
	WILLIAM A. THEMANN Assistant Clinical Professor of Dentistry D.D.S., Columbia, 1927.
	Arthur Cranston Totten
V	James L. Troupin Associate Professor of Public Health Practice M.D., Tufts, 1932; M.S., Columbia, 1942.
V	HARRY BENJAMIN VAN DYKE
\$	WILLIAM WELCH WALCOTT
1	SHIH-CHUN WANG
	EVELYN WITOL
	EDWARD VICTOR ZEGARELLI
V 1.1	de en elle ve
	HOWARD ARDEN, B.S., D.D.S
	HERBERT DELBERT AYERS, JR., A.B., D.D.S
	¹ Bert Ballin, A.B., D.D.S
	1 On leave 1950–1951.
R	let Melson - aB., ypoola 1943 Institutor M.D., Effersio 1944 Physiology de L. Carpenter B.J. Ohio St. 1948 ant in
Fran	le St. Capenter B. J. Ohis St. 1948 antin

Herbert Bartelstone, B.S., D.D.S.	. Research Assistant in Dentistry
Carlisle C. Bastian, D.D.S	Lecturer in Dentistry
James Winston Benfield, A.B., D.D.S.	Instructor in Dentistry
DOROTHY R. BLITSTEN, Ph.B.	Lecturer in Dental Hygiene
Ignazio F. Boscarelli, B.S., D.D.S.	Assistant in Dentistry
STANISLAW H. BRZUSTOWICZ, B.S., D.D.S.	Assistant in Dentistry
THEODORE M. BUNDRANT, D.D.S	
NEAL W. CHILTON, B.S., D.D.S., M.P.H.	Lecturer in Dentistry
Ada R. Clark, B.S., A.M., Ph.D.	Associate in Bacteriology
George B. Crozat, D.D.S.	Lecturer in Dentistry
Kourken A. Daglian, B.S., D.D.S.	Assistant in Dentistry
ROBERT CYRIL DEVINE, B.S., D.D.S.	Instructor in Dentistry
Frank E. Dixon, B.A., B.S., D.D.S.	Instructor in Dentistry
John J. Dolce, B.S., D.D.S.	Instructor in Dentistry
Robert Drelich, B.S., D.D.S., M.S.	Assistant in Anatomy
Joseph D. Eby, D.D.S.	Lecturer in Dentistry
JACOB FEINMAN, B.S., LL.B., D.D.S.	Instructor in Dentistry
Joseph E. Fiasconaro, B.S., D.D.S.	Instructor in Dentistry
Barbara Jane Fink, R.D.H	Assistant in Dental Hygiene
Walter H. Fordham, Jr., D.D.S.	. Research Assistant in Dentistry
HERBERT PHILIP FRITZ, D.D.S	Instructor in Dentistry
Herman Gladstone, B.S., M.D	Instructor in Anatomy
Benjamin William Glick, B.S., A.M., M.D.	Instructor in Anatomy
Robert J. Gorlin, A.B., D.D.S.	Instructor in Dentistry
Robert Gottsegen, A.B., D.D.S.	Instructor in Dentistry
Evelyn R. Hannon, R.D.H	Instructor in Dental Hygiene
Axel Hanson	. Instructor in Dental Technique
Leonard Hirschfeld, A.B., D.D.S	Instructor in Dentistry
John D. Hogan, B.S., D.D.S.	Instructor in Dentistry
Sidney L. Horowitz, B.S., D.D.S	. Research Assistant in Dentistry
ELLEN N. HOSIOSKY, D.M.D., D.H., D.D.S.	Assistant in Dentistry
JAMES JAY, D.D.S.	Instructor in Dentistry
man R. affect A.B. Wes	leyan your. asol. in
a faid and The	leyan your. assil in 9413 Physiology view Year Physiology
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	36 COLUMBIA UNIVERSITY
	Joseph E. Johnson, D.D.S Lecturer in Dentistry
	SOLOMON L. KATZ, D.D.S
	MORRIS KAVELLE, B.S., D.D.S
	BERTRAM KLATSKIN, A.B., D.D.S
,	STANLEY L. LANE, B.S., M.D., D.D.S Instructor in Oral Surgery
mit.	WILLIAM H. LEAK, D.D.S
	EVALD LINDER
	Julius K. Littman, M.D
	Francis J. Loughlin, D.D.S
	JOSEPH LUBAN, B.S., D.D.S
	EDWARD S. LUBOJA, D.D.S
	JOHN J. LUCCA, A.B., D.D.S
	HARRIET G. McCormick, A.M., Ph.D Lecturer in Dental Hygiene
	CLARE K. MADDEN, D.D.S
	IRWIN D. MANDEL, B.S., D.D.S
	ARTHUR H. MERRITT, D.D.S., M.S., Sc.D Lecturer in Dentistry
	HENRY MILCH, A.B., M.D
	WILLIAM MILLER, B.S., D.D.S
	WILLIAM JOHN MILLER, A.B., D.D.S Instructor in Dentistry
	MELVIN L. MORRIS, B.S., A.M., D.D.S
	STANLEY F. NIEF, A.B., D.D.S
	Armand M. Oppenheimer, A.B., B.S., D.D.S Instructor in Dentistry
	MIRIAM C. PRITCHARD, B.A., M.D., Ph.D Lecturer in Dental Hygiene
	FRED ROTHENBERG, D.M.D., D.D.S
	Bobb Schaeffer, A.B., A.M., Ph.D Lecturer in Dentistry
	Louis Lazlo Schwartz, B.S., D.D.S Lecturer in Dentistry
	Steven Sorivani, D.D.S
	ALEXANDER SEELIG, B.S., D.D.S
	BOAZ SHATTAN, A.B., D.D.S
	HAROLD SHERMAN, B.S., D.D.S
es his box	HERBERT F. SILVERS, B.S., D.D.S Research Associate in Dentistry
The second	Wellington B. Stewart nocketing associate, gathelyy
9	Canette allen Behre assoure, more

Franklin A. Squires, D.D.S Lecturer in Dentistry
GEORGE STEIN, M.D., D.M.D
Leo Stern, Jr., A.B., D.D.S
WALTER W. STEVENS, D.D.S
BENJAMIN TENENBAUM, B.S., D.D.S Research Associate in Dentistry
¹ Joseph J. C. Thomson, D.D.S
FERDINAND A. TUOTI, D.M.D
Ennio L. Uccellani, D.D.S
WILLIAM A. VERLIN, A.B., D.D.S
CLIFFORD L. WHITMAN, D.D.S
Frederick F. Yonkman, A.B., Ph.D., M.D Lecturer in Pharmacology

CLINICAL ASSISTANTS

RALPH BECKER, B.S., D.D.S.
DANIEL BLATMAN, D.D.S.
SEBASTIAN A. BRUNO, D.M.D.
JESSE W. FIELD, D.D.S.
WESLEY HALPERT, B.S., D.D.S.
EDWARD HEIDT, D.D.S.
STANLEY S. HELLER, B.S., D.D.S.
HEDDA M. JOHN, D.D.S.
FRANK KANTER, D.D.S.
JACOB I. KAPLAN, D.D.S.
JOHN A. KORNIEWICZ, D.D.S.
ROBERT G. KROLL, D.D.S.
AUSTIN H. KUTSCHER, A.B., D.D.S.
JOSEPH M. LEAVITT, D.D.S.

AARON L. ACKERMAN, D.D.S., M.P.H.

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GEORGE MINERVINI, A.B., D.D.S.
HOWARD B. MOSHMAN, D.D.S.
HENRY I. NAHOUM, A.B., D.D.S.
JOHN D. PIRO, D.D.S.
SYDNEY C. RAPPAPORT, D.D.S.
NATHANIEL RATTNER, D.D.S.
JULIAN SCHROFF, B.S., D.D.S.
WALTER G. SPENGEMAN, A.B., D.D.S.
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SEYMOUR ZEFF, D.D.S.
DAVID ZEISLER, B.S., D.D.S.
LENARD ZUCKERMAN, D.D.S.

SEYMOUR LEVINE, D.D.S.

PRESBYTERIAN HOSPITAL DENTAL SERVICE

SAMUEL BIRENBACH, Director Lowe, acting Attending Dental Surgeons

Adolph Berger Houghton Holliday Carl R. Oman GILBERT P. SMITH LEWIS R. STOWE ARTHUR C. TOTTEN

Associate Attending Dental Surgeons

Lester R. Cahn Irvin L. Hunt, Jr. Solomon N. Rosenstein Joseph Schroff

¹ On leave until March 15, 1951.

- Chang Huang - m. D. China - Follow in n Q. Ellison - B. F. CCn y - Visiting Tellow in

Assistant Attending Dental Surgeons

OSCAR E. BEDER FRANK E. BEUBE EDWARD A. CAIN FRANK E. DIXON ALVIN S. NATHAN
WILLIAM J. SAVOY
EDWARD V. ZEGARELLI
ALBIN R. SEIDEL, Consultant

PRESBYTERIAN HOSPITAL ORAL SURGERY SERVICE

MAURICE J. HICKEY, D.M.D., M.D., Assistant Attending Surgeon STANLEY L. LANE, B.S., M.D., D.D.S., Assistant Attending Surgeon

REGISTER OF STUDENTS

GRADUATES-CLASS OF JUNE, 1949

Berg, Marc Louis Kurzius, George Bro A.B., New York University, 1941 New York City Brooklyn, N. Y. Cornell Levin, Alex Elihu Breuer, Jack M. New York City New York City A.B., Columbia, 1946 George Washington Docktor, John Paul Ellsworth, Penna. B.S., Pittsburgh, 1941; M.D., George Wash-McAllister, Charles Bruce, Jr. Elmhurst, N. Y. B.S., Fordham, 1944 ington, 1943 Popper, Alfred New York City Cedarhurst, N. Y. Freedman, Leonard Irving M.D., Hamburg (Germany), 1934 Wisconsin; New York University New York City Prata, Raymond Louis John, Hedda Maria New York City B.S., Fordham, 1943 M.D., Prague (Czechoslovakia), 1925; D.D.S., 1933 Richmond, Julius Kenrick Ma'cepeace Georgetown, B. G. Karlan, Frances Ross New York City Queens College (British Guiana); Columbia

B.S., Massachusetts Institute of Technology, Yanowitz, Bernard Malone, N. Y. St. Lawrence

SEPTEMBER 12, 1949 TO JUNE 8, 1950

Andreozzi, Armando Edmond Providence, R. I. Brown: Tufts
Barlow, Carl Morton New York City
A.B., New York University, 1946
Buslowe, Louis New Haven, Conn.
A.B., Yale, 1938
Citron, Hyman Allan New York City
B.S., College of the City of New York, 1946
Cook, Dana Ellsworth Tarrytown, N. Y.
Massachusetts Institute of Technology; Colgate
Dowling, James Glenville Fairfield, Conn.
Fordham; St. Lawrence
Fitz-Gibbon, Francis John Holyoke, Mass.
Providence College
Furgang, Murray Pelham Manor, N.Y.
College of the City of New York; St. John's
(N. Y.); Fordham; New York University
Harnett, William Watkins Englewood, N. J.
Detroit; Hanover; Columbia
Harris, Stanford New York City
College of the City of New York; Gonzaga
University; University of Washington
Henrich, Edwin John New Rochelle, N. Y.
New York University; Buffalo; Cornell
Jacklyn, Herbert Barre New York City
College of the City of New York
Jenkins, Cornelius Willis New York City
A.B., Lincoln, 1946
Jussim, Julius New York City
B.S., College of the City of New York, 1938
Lemrow, Maynard Wesley Stratford, Conn.
Westminster (Penna.); Bethany (W. Va.)
Levine, Charles Lester New York City
College of the City of New York; Wisconsin;
Ohio; Michigan
Loeffler, George Henry Jamaica, N. Y.
Manhattan College
McManus, Philip Patrick, Jr. New York City
A D Tilingia and

Jackson Heights, N. Y.

Elizabeth, N. J.

FOURTH YEAR-CLASS OF JUNE, 1950

D.S., Fordham, 1946	
Pomerance, Alan Saul	Brooklyn, N. Y.
A.B., Brown, 1946	
Russo, Michael Archangel	Elizabeth, N. J.
B.S., Fordham, 1942	
Savad, Sol	Brooklyn, N. Y.
A.B., Brooklyn, 1939	• •
Schwartz, Stanley Irving	Poughkeepsie, N. Y.
A.B., Bard, 1945	
Shapiro, Morton Louis	Brooklyn, N. Y.
B.S., Willamette, 1947	• •
Sherr, Leonard Allen	New York City
College of the City of N	lew York; Wisconsin
Tansky, Joseph	Brooklyn, N. Y.
Brooklyn	• •
Tiernan, Vincent Clifford	New York City
B.S., Manhattan, 1942	•
Vairo, George Gerard	New York City
B.S., Fordham, 1942	
Vogel, Howard Bernard	New York City
College of the City of	New York: Bates:
Rochester	,,

O'Loughlin, John Joseph Howard Beach, N. Y.

THIRD YEAR-CLASS OF JUNE, 1951

Adams, Roger Pettingell	Westbrook, Maine
B.S., Bowdoin, 1946 Cohen, Eugene A. Brooklyn	Brooklyn, N. Y.
Friedman, Edward U.	Hempstead, N. Y.
Mt. Union; New York	University
Goulian, Dicran, Jr. Columbia	Weehawken, N. J.
Greenier, Robert David	Orangeburg, N. Y.
B.S., Fordham, 1941	9 9,
Grether, Eugene R.	Virginia
A.B., Wisconsin, 1938	; M.D., 1943
Griffin, Edward Mitchell	Mt. Vernon, N.Y.
A.B., Dartmouth, 1947	
Houser, William Wyman	Yorkville, N. Y.
Colgate	· / /
Kutner, Philip	Corona, N. Y.
B.S., College of the Cit	

1 Died October, 1949.

A.B., Illinois, 1942

Nebel, Arthur John, Jr.

Centre College; Columbia

Cornell; B.S., Queens College, 1950

Menken, George

1942

40 COLUMBIA C	JNIVERSIII
Machenberg, Stanley Ellis Stamford, Conn.	Kahan, Robert Bronx, N. Y.
B.S., Connecticut, 1943 Mellow, Emil Anthony Old Forge, Penna.	Ohio State; Columbia Kesseler, Edward Peter New York City
Scranton Moschella, Joseph Staten Island, N. Y.	Amherst Kessler, Harry Samuel Bronx, N. Y.
A.B., Norwich, 1937 Murakami, Kenneth Kiyoshi Honolulu, T. H.	A.B., Pennsylvania, 1948 Lai, Leonard J. L. Honolulu, Hawaii B.S., Hawaii, 1946
Hawaii Murphy, James Gerard Arlington, N. J.	Leefer, Norman Harold Roosevelt, N. J. Rutgers
Newark O'Connor, James Thomas Brooklyn, N. Y. A.B., St. Peter's (N. J.), 1947	Mason, David Newton, Jr. Scarsdale, N. Y. Wesleyan
O'Neill, Frank Deveraux Carle Place, N. Y. B.S., New York University, 1940; A.M., 1942 Platzer, Kenneth Martin Brooklyn, N. Y.	Moglia, Alfred Bill Morristown, N. J. Diploma of Classical Maturity, R. Convitto Nazionale, Parma, Italy, 1943; University of
A.B., Brooklyn, 1942 Rivera-Gonzalez, Victor M.	Parma Medical School; Hunter College Perry, Jerome Herbert Bronx, N. Y.
Aibonito, Puerto Rico Louisiana State; Tennessee	A.B., New York University, 1948 Samuels, Thomas Edward Forest Hills, N. Y.
Seidenberg, Leonard Syracuse, N. Y.	Fordham Steiner, Robert Mark New York City
Selinger, Jerome New Brunswick, N. J.	A.B., Columbia, 1948 Sydow, Gunnar Eugene Hackensack, N. J.
Rutgers Silverstein, Harold Brooklyn, N. Y.	Texas; A.B., Colgate, 1948 VanBuren, Robert Harold New York City
A.B., Brooklyn, 1947 Storella, John Alfonse Boston, Mass.	St. Lawrence
B.S., Massachusetts State, 1947 Tolmach, Herbert New York City	Zimmerman, Frank, Jr. Hartford, Conn. Wittenberg; B.S., Trinity, 1948
A.B., New York University, 1947 Tripodi, Joseph John Tonawanda, N. Y.	FIRST YEAR—CLASS OF JUNE, 1953
B.S., St. Bonaventure, 1945; M.S., 1947 Worboys, Wilson Thomas New York City A.B., Houghton, 1940	Arlotti, Katherine M. Brooklyn, N. Y. B.S., St. Joseph's College for Women, 1949
	Axelrod, Saul New York City New York University
SECOND YEAR—CLASS OF JUNE, 1952 Berger, Stephen R. Forest Hills, N. Y.	Balick, Morton Forest Hills, N. Y. A.B., New York University, 1949
Manhattan; B.S., Queens College, 1948 Carrucci, Carmine A. Bronx, N. Y.	Baral, William G. Bronx, N. Y. City College of New York; Columbia
St. John's; B.S., Dickenson, 1948 DeFrancesco, Louis V. Stamford, Conn.	Benes, Martin Brooklyn, N. Y. A.B., New York University, 1949
B.S., Fordham, 1948 DeLisi, Joseph Charles Astoria, N.Y.	Camesas, Pandelis Long Island, N. Y. B.S., College of the City of New York, 1949
College of the City of New York; Fordham Falevitch, Norman Calvin Brooklyn, N. Y.	Cantor, Murray A. Albany, N. Y. B.S., Hofstra, 1949
College of the City of New York; A.B.,	Closter, Charles E. New Rochelle, N. Y. Fordham
Hofstra, 1948 Fasano, Carmine Mario Brooklyn, N. Y.	Cornell, Harvey B. Flushing, N. Y. Canisius
Dartmouth; B.S., Harvard, 1946; Brooklyn College	Coulter, George M. Pawling, N. Y. Bard
Finder, Robert Byron New York City A.B., Columbia, 1948	Daum, Lawrence Brooklyn, N. Y. College of the City of New York; A.B.,
Firdman, Marvin Bronx, N. Y. Brooklyn College; A.B., New York University, 1948	Hunter, 1949 Feldman, Melvin M. Long Island, N. Y.
Gilbert, Albert Kirven, Jr. Columbus, Ga. Georgia School of Technology; Emory	Queens; Brooklyn; B.S., Fordham, 1948 Feuer, Stanley New York City
Glass, Daniel Brooklyn, N. Y. B.S., College of the City of New York, 1948	B.S., Seton Hall, 1949 Fierstein, Allan L. Forest Hills, N. Y.
Gliedman, Monroe Marvin New York City New York University; B.S., Massachusetts In-	Junior College of Connecticut; Columbia Franke, Irwin Brooklyn, N. Y. Scranton
stitute of Technology, 1946 Gliedman, Richard New York City	Fusaris, Charles West Haven, Conn. Connecticut
New York University; B.S., Massachusetts Institute of Technology, 1946	Garbett, Harry Jackson Heights, N. Y. Columbia
Guido, Matthew Gabriel West New York, N. J. Washington State; Columbia	Gordon, Ira Long Beach, N. Y. Rutgers; Syracuse
Helmer, Morvia Thomas Prospect, N. Y. Colgate; Utica College of Syracuse	Grippo, John O. North Walpole, N. H. B.B., St. Bonaventure, 1949
Kahan, Edward Bronx, N. Y. Ohio State; Columbia	Halpert, Marcella R. (Mrs.) New York City Adelphi, Centenary; New York University

В.	ENTINE HILE	
Hill, Charles S. Fordham	White Plains, N. Y.	Barrer, Harry George Brooklyn, N. Y. D.D.S., Columbia, 1942
Horowitz, Jack New York University	Brooklyn, N. Y.	Briskin, Melvin Robert Kew Garden Hills, N. Y.
Kahn, Arthur M.	New York City	D.D.S., Maryland, 1941
A.B., New York Univer	sity, 1948	Burford, Robert S., Jr. New York City
Kaufman, Jerome	Brooklyn, N. Y.	D.D.S., Medical College of Virginia, 1945 Copper, John Robert Newton, Miss.
B.S., College of the City	y of New York, 1949	Cooper, John Robert Newton, Miss. D.D.S., Atlantic Southern, 1942
Keller, Bernard B.S., Fordham, 1949	Long Island, N. Y.	Dragiff, David New York City
Koslin, Allen J.	Jamaica, N. Y.	D.D.S., Columbia, 1943
A.B., Vanderbilt, 1947		Feinberg, Bernard Teaneck, N. J.
Leeds, Franklin A.	Forest Hills, N. Y.	D.D.S., Pennsylvania, 1936 Fine, Herbert Mt. Vernon, N. Y.
A.B., Adelphi, 1949 Lynch, Edward P.	New York City	D.D.S., Maryland, 1943
Manhattan	Tiew Tork Orly	Forrest, George Forest Hills, N. Y.
Lyons, George V.	Troy, N. Y.	D.D.S., Columbia, 1944
Siena	** ** ! 6':	Kruszewski, Edward Paul Orangeburg, N. Y. D.D.S., Temple, 1944
Mastrogeannes, Peter	New York City	Ochoa, Ivan Colombia, South America
B.S., Fordham, 1948 Polayes, Irving M.	New Haven, Conn.	D.D.S., University of Antioquia (Colombia),
A.B., Duke, 1948	21011 2221011, 231111	1946
Randi, Joseph A.	Long Island, N. Y.	Seiden, Felix Brooklyn, N. Y.
Adelphi; Columbia	Amherst, Mass.	D.D.S., University of Buffalo, 1942 Sugiyama, Francis Howi, Hawaii
Ray, Charles E. A.B., Amherst, 1948	Annerst, Wass.	D.D.S., Maryland, 1946
Rosenthal, Lester	Bronx, N. Y.	Wallshein, Melvin Brooklyn, N. Y.
A.B., Hofstra, 1948		D.D.S., Pennsylvania, 1949
Sadles, Stanley R. B.S., Columbia, 1949	Richmond Hill, N. Y.	Wenig, Martin Little Neck, N. Y. D.D.S., Pennsylvania, 1944
Schwartz, Murray	New York City	Wiener, Noel Jacob New York City
New York University	Prodelin N V	D.D.S., Temple, 1937 Witek, John New York City
Sciascia, Oscar J. A.B., Adelphi, 1949	Brooklyn, N. Y.	D.D.S., Northwestern, 1943
Small, Irwin	Tarrytown, N. Y.	, , , , ,
A.B., Michigan, 1949		SPECIAL STUDENTS
Suomi, John D.	Brooklyn, N. Y.	Di Salvo, Nicholas Armand New York City
Columbia Thibert, Gerard A.	Fitchberg, Mass.	D.D.S., Columbia, 1945; B.S., College of the
B.S., Providence, 1949	Titeliberg, mass.	City of New York, 1942
		Ellison, Solon A. New York City
POSTGRADUATI	STUDENTS	B.S., Brooklyn, 1942; D.D.S., Columbia, 1946 Halpert, Wesley New York City
CANDIDATES FOR THE CER	RTIFICATE OF TRAINING	B.S., City College of New York, 1943; D.D.S.,
Oral Su	17007N	Columbia, 1946
	•	Raebeck, William, Jr. Belle Harbor, N. Y.
Douglas, Bruce Lee D.D.S., New York Uni	Brooklyn, N. Y.	D.D.S., Columbia, 1947
Eisenberg, Mervin	Newark, N. J.	
D.D.S., Pennsylvania,		SUMMARY
Hu, Yung Cheng	Chengtu, China	Graduates—June, 1949 13
D.D.S., West China U	nion (China), 1944 Atzcapotzalco, Mexico	Fourth Year—Class of June, 1950 30
Lebrija, Jose Perez D.D.S., Mexico, 1948	Atzcapotzaico, mexico	Third Year—Class of June, 1951 25
Mandel, Louis	Bronx, N. Y.	Second Year—Class of June, 1952 28
D.D.S., Columbia, 194		First Year—Class of June, 1953 40
		Candidates for Certificates in Training 22
Orthod	ontics	Special Postgraduate Students 4
Babinski, Lewis Andrew	St. Albans, N. Y.	
D.M.D., Tufts, 1940		Total

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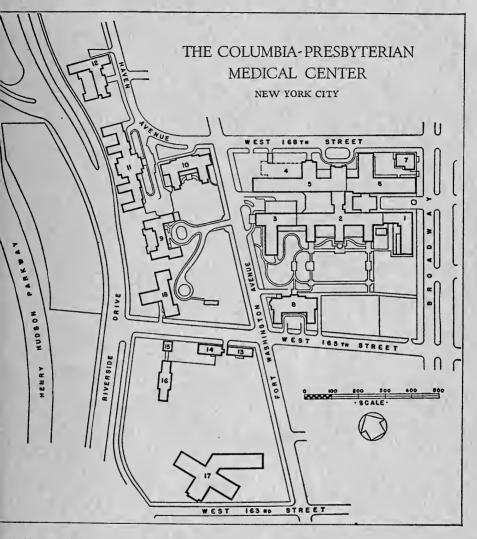
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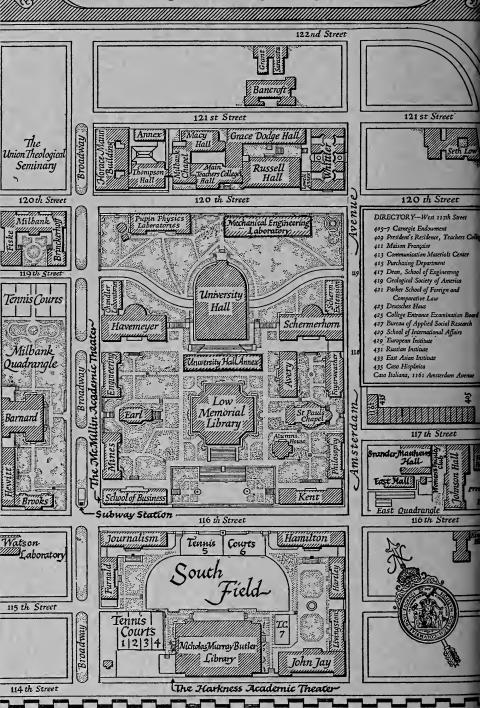




- 1. Babies Hospital
- 2. Presbyterian Hospital Sloane Hospital
- 3. Harkness Pavilion
- 4. Power plant
- 5. College of Physicians and Surgeons
- 6. Vanderbilt Clinic
 - School of Dental and Oral Surgery
- Washington Heights Health and Teaching Center, New York City Dept. of Health School of Public Health

- 8. Institute of Ophthalmology
- 9. Maxwell Hall
- 10. Neurological Institute
- New York State Psychiatric Institute and Hospital
- 12. Bard Hall
- 13, 16. Storage
- 14. Shops
- 15. Housing
- 17. Francis Delafield Hospital, New York City Dept. of Hospitals
- 18. Edward S. Harkness Memorial Hall

MORNINGSIDE HEIGHTS Plan of Buildings and Grounds



COLUMBIA UNIVERSITY BULLETIN OF INFORMATION

Fifty-first Series, No. 30

August 11, 1951

COPY 2
COLUMBIA UNIVERSITY
HEADNOUNCEMENT OF THE

SCHOOL OF DENTAL AND

ORAL SURGERY

OF THE

FACULTY OF MEDICINE

1951-1952

COLUMBIA-PRESBYTERIAN MEDICAL CENTER
630 WEST 168TH STREET · NEW YORK 32, N. Y.

Columbia University Bulletin of Information

Fifty-first Series, No. 30

August 11, 1951

Issued at Columbia University, Morningside Heights, New York 27, N. Y., weekly from January for forty consecutive issues. Re-entered as second-class matter January 20, 1951, at the Post Office at New York, N. Y., under the Act of August 24, 1912. Acceptance for mailing at a special rate of postage provided for in Section 1103, Act of October 3, 1917, authorized.

The series includes the Report of the President to the Trustees and the Announcements of the several Colleges and Schools relating to the work of the next year. These are made as accurate as possible, but the right is reserved to make changes in detail as circumstances require. The current number of any of these Announcements will be sent upon application to the Office of University Admissions.

C. U. P. 6,000—1951

Communications

All communications regarding the School of Dental and Oral Surgery, applications for admission, and appointments for personal interviews should be addressed to the School of Dental and Oral Surgery, 630 West 168th Street, New York 32. N. Y.; telephone: Wadsworth 3-2500.

Announcements

The Announcements of each College or School and of the Summer Session may be obtained without charge from the Office of University Admissions.

Letters requesting more detailed information than is contained in this Announcement and all correspondence regarding admission should be addressed to the Dean, School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y.

PRINTED FOR THE UNIVERSITY BY COLUMBIA UNIVERSITY PRESS



THE MEDICAL CENTER, INCLUDING THE SCHOOL OF DENTAL AND ORAL SURGERY WING AT THE RIGHT

Columbia University in the City of New York

ANNOUNCEMENT OF THE

SCHOOL OF DENTAL AND ORAL SURGERY

OF THE

FACULTY OF MEDICINE



1951-1952

columbia-presbyterian medical center 630 west 168th street new york 32, N.Y.

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CONDENSED ACADEMIC CALENDAR

1951

September 13 Thursday, through September 15, Saturday. Registration, including payment of fees.

September 17 Monday. Classes begin.

November 6 Tuesday. Election Day. Holiday.

November 22 Thursday. Thanksgiving Day. Holiday.

December 1 Saturday. End of first trimester.

December 3 Monday. Beginning of second trimester.

December 24 Monday, through

1952

January 6 Sunday. Christmas Holidays.

February 12 Tuesday. Lincoln's Birthday. Not a University Holiday.

February 15 Friday. Dean's Day. Not a University Holiday.

February 22 Friday. Washington's Birthday. Holiday.

March 1 Saturday. End of second trimester.

Last day for filing application or renewal of application for all degrees and certificates, except doctoral degrees, to be conferred in June. The privilege of later application may be granted on payment of a late fee.

March 3 Monday. Beginning of third trimester.

April 6 Sunday, through April 13, Sunday. Easter Holidays.

May 24 Saturday. Last day of classes.

May 26 Monday, through May 31, Saturday. Final examinations.

May 30 Friday. Memorial Day. Holiday.

June 5 Thursday. Conferring of degrees.

FACULTY OF MEDICINE

Officers of the Faculty

DWIGHT D. EISENHOWER, LL.D President of the University
GRAYSON L. KIRK, PH.D., LL.D Vice President of the University;
Provost of the University
WILLARD COLE RAPPLEYE, M.D., Sc.D., MED. Sc.D Vice President in Charge of
Medical Affairs; Dean of the Faculty of Medicine
MAURICE J. HICKEY, M.D., D.M.D Associate Dean (Dental and Oral Surgery)
AURA E. SEVERINGHAUS, Ph.D Associate Dean (Medicine); Secretary
HAROLD W. BROWN, Sc.D., M.D., D.P.H Acting Associate Dean (Public Health)

The Faculty

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Committee on Dental Education

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	CARL R. OMAN & jour lehroft
HANS T. CLARKE S. M. Karehan	GILBERT P. SMITH
SAMUEL R. DETWILER Path.	HARRY P. SMITH
Magnus I. Gregersen	Lewis R. Stowe
HOUGHTON HOLLIDAY	Arthur C. Totten
BARNET M. LEVY	HARRY B. VAN DYKE Charm. La Gilines
Ewing C. McBeath] sal-batteral to 2/25/52.	WILLARD C. RAPPLEYE, ex officio
t Rosensteins & Aura E. Severinger	IAUS, ex officio
in refresent de Me E (18 E. street	Ncan)

Administrative Staff

at School of Dental and Oral Surgery

mail. Pernowski	1										
Lucia Klemovicit ()		٦.								Assistant to the Registrar	
THOMAS P. FLEMING, M.S.										Librarian	

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THE SCHOOL OF DENTAL AND ORAL SURGERY

Columbia University was founded in 1754 as King's College by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The Revolutionary War interrupted its active work, but in 1784 it was reopened as Columbia College. In 1912 the title was changed to Columbia University in the City of New York.

From its inception, the program of dental education at Columbia University has been fostered by and associated with the University's School of Medicine. The Faculty of Medicine at its stated meetings of November and December, 1915, recommended to the Trustees that a Dental School be established in the University on "University Lines."

The President of the University in his annual report of 1916 informed the Trustees that "during the year a group of men have come forward with a well-supported proposal that there be established in connection with the Medical School, a school for the training of dental surgeons." The President also reported that "the project was carefully formulated and presented to the Medical Faculty and received the formal approval of that Faculty and later of the Trustees."

In May, 1916, the University issued a pamphlet entitled A Dental School on University Lines. In this pamphlet the University stated its intent to establish a school of dentistry in affiliation and coordination with the School of Medicine. The pamphlet's introductory statement outlined the University's policy for dental education which has been consistently followed:

Dentistry and Dental Education are on the threshold of extraordinary development but are unable to take advantage of their opportunities because of the traditional separation of dentistry and medicine. Dentistry has been shown by recent investigations and research to be logically a branch of general medicine.

In the fall of 1917 James N. Jarvie gave a substantial sum to a fund "to found and maintain the proposed dental school of the University, described in the pamphlet entitled A Dental School on University Lines issued by Columbia University, May 1916."

In September, 1916, students in dentistry were admitted to courses in Columbia University at the School of Medicine. On March 5, 1917, the Trustees of the University established a school of dentistry as of September 27, 1916, and from that date the School became an integral part of the University. On March 1, 1920, the dental building adjacent to the School of Medicine and Vanderbilt Clinic was finished and assigned to the use of this school.

On July 1, 1923, the College of Dental and Oral Surgery of New York (organized in 1905) was merged with the School of Dentistry, and the combined institutions named the School of Dental and Oral Surgery of Columbia University. By this merger Columbia acquired two large buildings, at 302–306 East 35th Street and 309–315 East 34th Street, in which the School was housed up to the time of moving into the Medical Center.

The merging of the schools did not alter the University's policy for dental education. In the 1923–1924 Announcement of the School of Dental and Oral Surgery this policy was reaffirmed by the statement, "It is the purpose of the School of Dental and Oral Surgery to combine in the highest degree practicable a sound knowledge of the funda-

mentals of medicine with adequate training in the technical procedures of dental science and arts."

In September, 1928, the School was moved to the Columbia University-Presbyterian Hospital Medical Center. The dental department of the School occupies the seventh, eighth, and ninth floors of the Vanderbilt Clinic wing, a net floor area of forty thousand square feet. The fundamental science subjects, which are given to both dental and medical students, are taught in the adjoining College of Physicians and Surgeons, the corridors of the two schools being continuous. In adjacent wings, the halls of which are also continuous with those of the School, the wards and outpatient departments of the Presbyterian and associated hospitals are located, thus giving the closest possible contact and association with all branches of health service. The Dental School clinic includes as one of its functions the dental care of the patients of the Medical Center hospitals.

In order to strengthen the instruction of dental and medical students and to fulfill a further step in the integration of dental education and research with the medical program at the Columbia-Presbyterian Medical Center which was visualized when the Dental School was made a part of the Center in 1928, the Faculties of the two schools were merged July 1, 1945. This Faculty is responsible for the educational programs in medicine, dentistry, public health, nursing, graduate and postgraduate medical and dental education. A committee on dental education, established by University statute, of which a majority is from the Department of Dental and Oral Surgery and of which the Associate Dean for Dental and Oral Surgery is the chairman, initiates recommendations to the Faculty on the qualifications and admission requirements for dental students, the curriculum of instruction, the candidates for the degree of Doctor of Dental Surgery, and other educational matters dealing with dentistry.

The course in dentistry covers four academic years leading to the degree of Doctor of Dental Surgery. The greater part of the first two years of the curriculum is taken in the fundamental science departments of instruction in the University which are integral parts of the College of Physicians and Surgeons and the School of Dental and Oral Surgery.

REQUIREMENTS FOR ADMISSION, PROMOTION AND GRADUATION

Admission to First Year of the School of Dental and Oral Surgery

Application.—It is desirable that candidates make application during the academic year preceding that for which they seek admission. It is not necessary to complete the academic requirements before making application. However, all requirements must be completed before matriculation. Application blanks will be furnished by the Office of the Committee on Admissions of the School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y. Every application should be accompanied by a check or money order of five dollars, payable to Columbia University, to cover the cost of processing the application. This fee is not returnable.

The minimum requirement for admission to the first-year class is the satisfactory completion of three full years at an acceptable college of arts and sciences, which must

include the satisfactory completion of the following courses required by the New York State Board of Regents:

	Semester Hours
English composition and literature	6
Physics	6
Biology	6
Chemistry (including an approved course in organic	
chemistry)	12

A point or semester hour is the equivalent of one hour of lecture or recitation plus two hours of outside work or three hours of laboratory work per week, per semester. Suitable laboratory work must be included in each of the courses in science.

Inasmuch as an understanding of the biological sciences is based upon the knowledge of the underlying sciences of chemistry, physics, and biology, students are urged, so far as time permits, to take additional courses in quantitative, qualitative, physical, and organic chemistry, physics, comparative anatomy and other advanced courses in biology, as well as courses in mathematics, German and French, sociology, history, and other subjects of general cultural and scientific value. Courses in fine and industrial arts are also useful.

Owing to the limited number of students who can be accommodated, completion of the requirements for entrance does not guarantee admission. The entire college record of each student is carefully examined by the Committee on Admissions in order that those who are judged most capable of meeting the exacting demands of the course and of the profession of dentistry may be selected. Preference will be given in the selection of students to those who present to the Committee on Admissions evidence of high achievement in selected college courses of special predental value and who, in the opinion of the Committee on Admissions, are most likely to succeed in dentistry, rather than to those who present the largest number of course credits or those who have limited their preparation to the prescribed subjects. Acceptance of a student for admission is based on grounds of character and health as well as on the fulfillment of academic requirements.

An acceptance fee of \$50 is payable within ten days after notification of acceptance (see page 10).

Combined Courses

Combined Courses with Columbia College.—Upon receiving ninety-four points credit, sixty-four of which must be for work in Columbia College, including all the work prescribed for the degree of Bachelor of Arts in Columbia College, a student may take studies in the first year of the School of Dental and Oral Surgery, provided he can satisfy the stated requirements and is accepted for admission therein, and will receive the degree of Bachelor of Arts from Columbia College upon the satisfactory completion of the year's work. No course may be counted toward a professional degree and at the same time be included among those which go to make up the ninety-four points referred to above.

Combined Courses with Barnard College.—Students from Barnard College may exercise the professional option after the completion of ninety points of academic work, including all grouped work and a major of twenty-eight points unless this number is reduced in individual cases by special permission of the Committee on Instruction of Barnard College.

Combined Courses with the School of General Studies.—Students from the School of General Studies may exercise the professional option after the completion of ninety-four

points, including all the courses prescribed for the Bachelor of Science degree, not less than sixty-four of which have been received for work in Columbia University.

Combined Courses in Dentistry and Medicine.—It is usually possible for a graduate of a registered medical school with the degree of Doctor of Medicine to meet the requirements of the School and receive the degree of Doctor of Dental Surgery by the satisfactory completion of a special two-year course, which may include one summer session.

Admission of Foreign Students

The State Department of Education has special requirements with which students who are not citizens of this country must comply. Any foreign student desiring to apply to the School of Dental and Oral Surgery should communicate with the Dean.

Registration

Before attending University courses, every student must present himself at the office of the Registrar and file a registration blank giving such information as may be required. The periods set aside for registration in each session are stated in the Academic Calendar at the beginning of this Announcement. Registration at a later date is permitted only with the written permission of the Dean, satisfactory cause for the delay having been shown.

Fees

The University Statutes provide that tuition fees, the University fee, and laboratory deposits are payable semiannually in advance. No reduction is made for late registration. Registration will not be complete until such fees are paid. Checks should be drawn to the order of Columbia University and presented in person or mailed to the office of the Bursar. Payment of fees after the last day of registration (see the Academic Calendar) imposes automatically the statutory charge of \$3.00 for the privilege. Under the regulations, the privileges of the University are not available to any student until he has completed his registration.

The fees to be paid by students are subject to change at any time at the discretion of

The following annual fees are prescribed for dental students:

(a) University Fee

 For each Winter or Spring Session or any part thereof, for students enrolled for:

Toned for:									
One to four points, inclusive									
More than four points to nine points, inclusive	٠.								10.00
More than nine points									20.00
. For each Summer Session or any part thereof .									7.00
. For registration as engaged in research only for :	any	peri	od	not	lor	iger	th	an	
a Winter or a Spring Session			٠						20.00

(b) Tuition Fee

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10	COLOMBIA CIVIL ERGITT	
(c)	Fee for Application For a degree	\$20.00 10.00
(<i>d</i>)	Privileges 1. Late registration or late application for a degree or for deficiency or special examinations	3.00 3.00 1.00
(e)	Student Health Service Fee This fee will be used to pay the annual premium of the Associated Hospital Service of New York for hospital insurance and to pay part of the cost of the student health service. For all students, per academic year	20.00
<i>(f)</i>	Case Rental For Sophomores, Juniors, and Seniors, rental for one instrument case, for one academic year, payable in two installments	5.00
(g)	Rebates 1. The University fee and the fee for application for any degree shall not be subject to rebate. 2. No tuition fee shall be returned for any course which the student may for any reason discontinue. Exception to this rule may be made only in cases of total withdrawal from the University, when a partial return of fees may be authorized by the Registrar. When a rebate is allowed for the discontinuance of courses or withdrawal from the University, such rebate will be reckoned from the day upon which the Registrar receives notice from the student.	
(h)	Deposit	25.00

Acceptance Fee.—Within ten days after an applicant has been notified that his application has been accepted, he must notify the Dean that he intends to matriculate and accompany his communication with a check or money order for \$50, payable to Columbia University. This acceptance fee will belong to the University and if the applicant does not register at the School for the specific session, it will not be returned. If he registers at the School at the next enrollment of entering students, the amount of the acceptance fee will be deducted from his tuition fees for that session.

the prescribed course or withdrawal from the School.

Fee for Processing of Application.—A fee of \$5.00 is charged to every student who applies for admission to the School of Dental and Oral Surgery or the School of Medicine. This fee covers the cost of processing the application.

Fees for Repeated Courses.-Students obliged to repeat the work for any year are re-

quired to pay the full tuition fee.

Dental Equipment

Instruments and Supplies.—Each student is required to supply himself with instruments as specified in the official instrument list. The purchase from the University of instruments in original package outfits has been made compulsory, and unauthorized or incomplete equipment will not be accepted by the instructors. All technique material and regular supplies must be purchased from the University upon order from the instructor. The students will not be allowed to purchase more than is required to complete a case. The quantity and quality are selected with a view to the best possible results and conservation of the student's best interests.

Microscopes.—All students entering the School of Dental and Oral Surgery are required to provide themselves with microscopes of a satisfactory type. A microscope of standard make fitted with the following attachments will fill the requirements:

- a. Triple nosepiece.
- b. Abbe condenser.
- c. 10x and 6x oculars.
- d. 16 mm. and 4 mm. objectives.
- e. Oil immersion lens.

Lockers.—Each student will be assigned a locker on entering and will be required to use a combination lock as prescribed by the School.

Estimated Expenses

Following is an itemized estimate of the average expenses of a full-time student for an academic year in the School of Dental and Oral Surgery exclusive of travel, clothing, amusements, charity, organizations, and sundries. These items are, of course, variable but should not be overlooked in estimating the total expense. The tuition, room, board, books, and laundry figures are based upon the rates which prevailed during 1950–1951 and can be accepted as applicable in general for the year 1951–1952 unless national economic changes require their alteration.

						Average	Minimum
Tuition and University fees						\$ 790	\$ 790
Miscellaneous fees						55	30
Room						330	190
Board						385	350
Books						150	115
Instruments (see below)						325 (325
Laundry					٠	75	35
						\$2,110	\$1,835

- com Board 3200

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These estimates are subject to correction as the basic prices of supplies and instruments change. Instruments are to be paid for at the opening of the academic year. The cost of books will vary, depending upon the choice made from the selection offered.

Students

Each person whose registration has been completed will be considered a student of the University during the session for which he is registered unless his connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the consent of the appropriate dean or director.

Students prevented by conscientious scruples from complying with academic requirements which may be fulfilled only upon days set apart by their church for religious ob-

servance should make application to the Dean for an equitable solution.

Academic Discipline

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University, which is free to cancel his registration at any time on any grounds which it deems advisable. The disciplinary authority of the University is vested in the President in such cases as he deems proper, and, subject to the reserved power of the President, in the dean of each faculty and the director of the work of each administrative board.

Withdrawal

An honorable discharge will always be granted to any student in good academic standing and not subject to discipline who may desire to withdraw from the University; but no student under the age of twenty-one years shall be entitled to a discharge without the assent of his parent or guardian furnished in writing to the proper dean. Students withdrawing must notify the Registrar immediately.

The Dean of the School may, for reasons of weight, grant a leave of absence to a stu-

dent in good standing.

Requirements for Promotion

r. A student may be admitted to the second, third, or fourth year of the dental curriculum only upon the recommendation of the class officers of instruction under whom he has studied during the preceding year.

2. The School of Dental and Oral Surgery reserves the right to refuse readmission or promotion to any student who is believed for any reason to be unsuited to the conditions

of study in the school.

Students are classified for readmission or promotion under the following headings:

I. Recommended for advancement.

- II. Recommended for readmission to the same class.
- III. Recommended neither for advancement nor for readmission to the same class:
 - a) Because of failure.
 - b) Because they fall under paragraph 2 of rules for advancement of students.

Grading of Students

The following grade equivalents are used: A, excellent; B, good; C, fair; F, failure.

Requirements for Graduation

In addition to complying with the requirements for admission and to completing the required work of the curriculum, each candidate for the degree of Doctor of Dental Surgery must present satisfactory evidence as required by law of good moral character and of having attained the age of twenty-one years. If the candidate shall have been admitted to advanced standing, he must have spent not less than four academic years or their equivalent in approved medical or dental colleges in the study of the subjects making up the curriculum of the School of Dental and Oral Surgery.

Graduation

Commencement occurs in June, at which time all recipients of degrees awarded during the academic year are expected to attend the exercises unless excused. Diplomas are issued in June or at various times during the year.

No degree will be granted to a student who has not registered for and attended at the University courses of instruction equivalent to at least one academic year of full-time work.

An application for a degree or certificate, other than the several doctoral degrees, terminates at the next regular time for the issuance of diplomas subsequent to the date of filing; but under conditions prescribed by the respective faculties it may be subject to renewal for a fee of \$1.00 each time that a candidate chooses to come up for consideration, within a period not to exceed three years. Thereafter with the filing of a second application the regular fee is again payable—\$20 in the case of a degree and \$10 in the case of a certificate.

Dates for the filing of applications are given in the Academic Calendar at the beginning of this Announcement.

Courses for Dental Hygienists

In September, 1947, the period of training for dental hygienists was increased from one to two academic years. On October 21, 1947, the University Council approved the establishment of the degree of Bachelor of Science to be conferred upon students who, having been admitted on the basis of two years of approved college study covering not less than sixty points in liberal arts subjects (including satisfactory courses in English, biological science or chemistry, and sociology or psychology), complete the course of instruction in the field of Dental Hygiene, consisting of two academic years of study, prescribed by the Faculty of Medicine.

Candidates for admission must be women between the ages of eighteen and thirty-five years and must present a record of good health. All candidates are required to make formal application in writing on blanks supplied by the School. After the application has been submitted, the academic record of the candidate should be sent to the School at the request of the candidate. Wherever possible, a personal interview is required before the candidate is accepted.

Applicants must satisfy the following requirements: Two years of sixty semester hours

of credit in liberal arts from a college or university approved by Columbia University. The following subjects are required:

	Semester Hours
English	6
Biological science or chemistry	3
Sociology or psychology	3

Upon the successful completion of the two-year curriculum in dental hygiene, the Bachelor of Science degree will be conferred.

Applicants who lack not more than eight credits for the sixty credits required for admission will be considered for matriculation on the condition that the eight credits be earned during the Summer Session between the Junior and Senior years.

For further information address the Dean, School of Dental and Oral Surgery, 630

West 168 Street, New York 32, N. Y.

Short Courses for Graduates in Dentistry

The School of Dental and Oral Surgery arranges courses in the various divisions of dentistry to meet the needs of groups of practitioners. In 1951–1952 short refresher courses will be offered in various subjects.

Admission requirements include graduation from an approved dental school and licensure to practice dentistry within the United States or a foreign country. There is no degree or certificate offered for these courses. For further information see the Announcement of Postgraduate Courses for Dentists, which may be obtained from the Dean, School of Dental and Oral Surgery.

Certificate of Training

The School of Dental and Oral Surgery is authorized to grant certificates of training in special branches of dentistry. The course of study for the certificate of training includes not less than thirty credits of special work in the clinical branches of dentistry approved by the Dean. At present, an organized fifteen months' course is offered to qualified graduates in dentistry who wish to prepare for specialization in orthodontics. Advanced courses leading to certificates of training are also offered in oral diagnosis and roentgenology, oral surgery, pedodontics, and periodontology. For further information see the Announcement of Postgraduate Courses for Dentists, which may be obtained from the Dean, School of Dental and Oral Surgery.

Graduate Courses in the Basic Sciences

A limited number of fellowships are available to graduates of dental schools acceptable to Columbia University. These fellowships offer opportunity for study in the following basic science departments of the University: anatomy, bacteriology, biochemistry, pathology, pharmacology, and physiology. For further information regarding qualifications and stipend, address the Dean, School of Dental and Oral Surgery.

Courses Leading to the Degree of Doctor of Philosophy

Graduation from accredited dental schools under the present curriculum of four academic years preceded by three acceptable predental college years is considered by the

Graduate Faculties of Columbia University as meeting the general requirement for admission. There are additional admission requirements in certain departments. A student who is accepted by the Graduate Faculties as a candidate for the degree of Doctor of Philosophy and who holds the Doctor of Dental Surgery degree from Columbia University may, with the consent of the Dean, offer the work done for the professional degree in lieu of thirty points toward the fulfillment of the residence requirement for the degree. For further information see the Announcement of the Faculty of Pure Science, which may be obtained from the Office of University Admissions, Columbia University, New York 27, N. Y.

Public Health for Dentists

A one-year course leading to a Master of Public Health degree is offered by the School of Public Health. The course is open to graduate dentists. For further information regarding course content, registration, and fees, apply to the Director, School of Public Health, 600 West 168th Street, New York 32, N. Y.

License to Practice Dentistry in New York State

Those desiring to take the New York State Board examinations are advised to address the Bureau of Professional Education, New York State Department of Education, 23 South Pearl St., Albany 7, New York. All applications for admission to the examinations should be completed at least thirty days before the examinations begin.

The examinations are conducted by the Department, and answer papers are read and marked by the Board, who know the candidate only by number. The subjects of the licensing examinations are anatomy, chemistry and metallurgy, operative dentistry and radiography, therapeutics and materia medica, physiology and hygiene, oral surgery, pathology and bacteriology, prosthetic dentistry, oral diagnosis, and histology. The operative and prosthetic subjects are divided into theory and practice. The minimum standing required in each subject is 75 percent.

The State Department of Education will admit conditionally to the examination in anatomy, physiology and hygiene, chemistry and metallurgy, and histology, applicants over nineteen years of age who are of good character, who are citizens of the United States or have declared the intention of becoming citizens in accordance with the law, who have completed the prescribed preliminary education requirement, and who are certified as having successfully completed the first two years of the required course in a registered

dental school.

PLAN OF INSTRUCTION

The curriculum is arranged with the object of providing the student with the necessary opportunities for acquiring a knowledge of the fundamental sciences in relation to dentistry and the techniques of approach in dental problems. Beginning in the first two academic years with a study of the basic sciences, particularly anatomy, biochemistry, bacteriology, pathology, pharmacology, and physiology, the student prepares himself for an understanding of the problems to be encountered in his later clinical work. The third and fourth academic years are devoted to mastering the methods of diagnosis and treatment of patients and acquiring a knowledge of disease patterns and the arts and skills required in preventing, curing, or controlling them.

Throughout the entire course an effort is made to interrelate the different phases of the dental learning by means of "correlative" and "combined" clinics in which the various departments and divisions cooperate in the discussion and demonstration of the same and related problems and thus treat the study of dentistry as a unit rather than a series of isolated branches of learning. At the same time an attempt is made to individualize instruction and to place responsibility as far as practicable upon the student for his own training. This is accomplished by means of the division of classes into small

sections, conferences, and the comprehensive case method of instruction.

CURRICULUM

1951-1952

Subjects*	Lecture or Seminar Hours	Lab. or Clinic Hours	Total Hours
FIRST YEAR			
Anatomy			
Embryology 152 F	19		19
Gross 151 FS	50	223	273
Microscopic 150 FS	42	126	168
Meuro 153 T	30	36	66
Oral 101 ST	19	117	136
Biochemistry 150 ST	39	117	156
Histology, Oral 115 ST	26	52	78
Physiology 150 FS	56	156	212
Theory and Practice			
Dental History 287 T	10		10
			1,118

^{*} Letter following course number designates trimester: $F \equiv \text{first}$, $S \equiv \text{second}$, and $T \equiv \text{third}$.

	Lecture		
	or	Lab. or	
	Seminar	Clinic	Total
Subjects*	Hours	Hours	Hours
SECOND YEAR			
Bacteriology 151 F and 152 F	43	99	142
Crown and Bridge 105 ST	10	165	175
Dental Materials 126 FS	10	56	66
Operative Dentistry 131 FST	20	201	221
	20	201	20
Oral Hygiene 122 T		140	194
Pathology 150 FS	54	1	33
Periodontology 151 T		33	87
Pharmacology 150 ST	54	33 206	226
Prosthetic Dentistry 157 FST	20	200	11
Psychiatry 150 S	11		11
Theory and Practice	\		
Therapeutics 286 T	/ 10		10
			1,185
THIRD YEAR			
Anatomy, Applied 252 S	10		10
Crown and Bridge			
Technique 205 F		8o	8o
Clinic 206 ST	10	113	123
Applied Occ. Dynamics 212 T		30	30
Diagnosis 212 FST	30	30	60
Operative Dentistry 233 FST	10	258	268
Orthodontics 241 F	20	60	80
Pathology, Oral 246 FS	20	60	80
Periodontology 251 S		30	30
Practice of Medicine 278 ST	40	22	62
Prosthetic Dentistry 260 FST and 261 FST	20	165	185
Radiology 267 F	10	14	24
Surgery, Oral 270 F	10	30	40
ouigery, oral 270 I			1,072
FOURTH YEAR		-	-
Crown and Bridge 210 FST and 211 FST	10	160	170
Diagnosis 213 F		30	30
Diagnosis Seminar 214 S		30	30
Diagnosis 215 T (continuation of 214)	10	3-	10
Orthodontics 243 FST		30	30
Operative Dentistry 234 FST	20	308	328
Pedodontics 202 FST	10	88	98
Periodontology 252 FS and 253 FS	20	30	50
Prosthetic Dentistry 263 FST and 264 FST		_	169
Public Health 222 S	10	159	20
Surgery, Oral 272 FST	20	60	100
Surgery Seminar 274 T	40	00	100
	10	20	
Surgical Prosthesis 265 S		30	30
Theory and Practice			
Dental History 283	10		10
Ethics 281 F	10		10
Jurisprudence 282 T	10		10
Comprehensive 285 T			

^{*} Letter following course number designates trimester: $F \equiv$ first, $S \equiv$ second, and $T \equiv$ third.

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COURSES OF INSTRUCTION

For purposes of instruction the work of each academic year is scheduled in three sessions of eleven weeks each, which are designated as First, Second, and Third Trimesters.

For a detailed statement of the content of each course, the student is referred to the

departmental statements which follow.

The outline on Pages 16 and 17 shows the work required of a candidate for the degree of Doctor of Dental Surgery. The University reserves the right to make such changes in the program of studies at any time as experience may prove desirable.

ANATOMY

Anatomy 101—Oral anatomy. Freshman year.

Lectures on gross anatomy of the teeth and related tissues. Laboratory reproduction of individual teeth in wax. Setting up teeth in occlusion. Restoring anatomy of carious teeth in wax and macroscopic study of structural parts of teeth.

Anatomy 115—Oral histology and embryology. Freshman year.

Lectures and laboratory work on growth and development of the jaws and face; microscopic anatomy of the teeth and surrounding and related tissues of the oral cavity. Application of this knowledge to technical dentistry.

Anatomy 150-Microscopic anatomy. Freshman year.

Lectures, conferences, and laboratory.

This course is the same as Anatomy 101F in the Medical School.

Anatomy 151—Gross anatomy. Freshman year.

Lectures, conferences, and laboratory.

Anatomy 152—Embryology. Freshman year.

Lectures and demonstrations dealing with the dynamics of vertebrate development, with particular reference to mammals and man.

Anatomy 153—Neuroanatomy. Freshman year.

Lectures and demonstrations on the gross anatomy, structure, and functions of the central nervous system. This course is equivalent to *Anatomy 106S* in the Medical School.

Anatomy 252—Applied anatomy of the head and neck. Junior year.

Lectures and demonstrations. A review course with special application to the problems of the major fields of dentistry.

BACTERIOLOGY

Bacteriology 151—General medical bacteriology and immunology. Sophomore year.

Lectures, conferences, and laboratory.

Bacteriology 152—Principles of bacteriology, epidemiology, infection, immunity, serum diagnosis, and specific therapy. Sophomore year.

This course is identical with Bacteriology 105F in the Medical School except that lectures on the mouth bacteria are substituted for several of those of the medical series.

BIOCHEMISTRY

Biochemistry 150—Introductory biochemistry. Freshman year.

Lectures and laboratory. A study of the chemistry of life processes with special reference to the animal organism.

DENTAL MATERIALS

Dental Materials 126—Physical properties of dental materials. Sophomore year.

Lectures and laboratory on the physical and chemical properties of the metals and other materials used in dentistry, with clinical applications.

DIAGNOSIS

Diagnosis 212—Dental diagnosis lecture and clinic. Junior year.

Lectures, conferences, and clinical practice in oral examination and charting, history-taking, methods of pulp testing, dental X-ray diagnosis, oro-dental symptomatology, and occlusal disharmonies.

Diagnosis 213—Dental diagnosis clinic. Senior year.

Continuation of clinic of Diagnosis 212.

Diagnosis 214—Diagnosis seminar. Senior year.

Discussion and differential diagnosis of selected cases.

Diagnosis 215—Diagnosis seminar. Senior year.

Continuation of Diagnosis 214.

MEDICINE

Medicine 278—General survey of medicine. Junior year.

Lectures and conferences covering phases of general medicine pertinent to dentistry and clinics for small groups in which the patients are studied for correlation of systemic and dental conditions.

OPERATIVE DENTISTRY

Operative Dentistry 131—Elements of operative dentistry. Sophomore year.

Lectures on the fundamentals of operative dentistry. Technical procedures in the filling of teeth, the study of dental materials—including the technique of porcelain inlay construction—and introduction to clinical practice.

Operative Dentistry 233—Operative clinical practice. Junior year.

Lectures on the application of operative fundamentals to clinical practice. Clinical practice and demonstrations.

Operative Dentistry 234—Advanced clinical practice. Senior year.

A continuation in lectures and clinic of Operative Dentistry 233 with the consideration of special problems in operative practice, including endodontia.

ORAL HYGIENE

Oral Hygiene 122—Oral hygiene lectures. Sophomore year.

Lectures and conferences on scientific findings related to the etiology and prevention of dental caries and diseases of the periodontium.

ORTHODONTICS

Orthodontics 241—Principles of orthodontics. Junior year.

Lectures and laboratory. Orthodontic fundamentals with special emphasis on prevention of malocclusion in orthodontics by the early recognition and correction of the predisposing factors. Laboratory time devoted to the designing and constructing of removable appliances used as space maintainers, habit breakers, and to correct tooth alignment in preparation for restorative dentistry and treatment of periodontal conditions. Clinical practice in the use of appliances constructed in the laboratory.

Orthodontics 242—Orthodontic clinic. Junior year.

Clinical orthodontics.

Orthodontics 243—Orthodontic clinic. Senior year.

Orthodontics 242 continued in the Senior year.

PATHOLOGY

Pathology 150—General and special pathology. Sophomore year.

A study of important pathological conditions, demonstrated by museum specimens and a very complete series of histological preparations.

Pathology 246—Oral pathology. Junior year.

Lectures, conferences, and laboratory work on the diseases of the jaws, mouth, and teeth.

Pathology 247—Oral pathology seminar. Senior year. Elective.

Conferences on the clinical application of oral pathology.

PEDODONTICS

Pedodontics 202-Pedodontics lectures and clinic. Senior year.

Lectures and conferences on operative dental procedures for children, management of child dental patients, and the application of present knowledge of dental development and preventive dentistry. Clinical work includes history-taking, prophylaxis, and restorative procedures adapted to deciduous and early permanent dentitions.

PERIODONTOLOGY

Periodontology 151—Periodontia clinic. Sophomore year.

Lectures and clinics on dental prophylactic technique and early disturbances of the periodontium.

Periodontology 251—Periodontia clinic. Junior year.

Lectures and clinics in the diagnosis and treatment of periodontal diseases.

Periodontology 252-Periodontology lectures. Senior year.

Lectures and conferences on the theory and practice of periodontology.

Periodontology 253—Periodontia clinic. Senior year.

Work in clinics in the diagnosis and treatment of advanced periodontal diseases.

PHARMACOLOGY

Pharmacology 150—Pharmacology. Sophomore year.

Lectures, conferences, and laboratory. In this course the pharmacological action of drugs on man and lower animals is studied.

PHYSIOLOGY

Physiology 150—Mammalian physiology. Freshman year.

Lectures, conferences, and laboratory.

PROSTHETIC DENTISTRY

Prosthetics 105-Crown and bridge lectures and technique. Sophomore year.

Lectures on the technical procedures in crown and bridgework, with practical application, and the construction of bridges and crowns on technique models.

Prosthetics 157-Prosthetic lectures and technique. Sophomore year.

Lectures and technical procedures in full and partial denture construction.

Prosthetics 205—Crown and bridge lectures and technique. Junior year.

Lectures on the technical procedures in crown and bridgework, with practical application, and the construction of bridges and crowns on models and extracted teeth.

Prosthetics 206—Crown and bridge clinic. Junior year.

Clinical construction of elementary crown and bridgework.

Prosthetics 210—Crown and bridge lectures. Senior year.

Lectures and conferences on various types of bridgework.

Prosthetics 211—Crown and bridge clinic. Senior year.

Clinical construction of crown and bridgework.

Prosthetics 212—Applied occlusal dynamics. Junior year.

Lectures, demonstrations, and technique stressing the relationship of occlusal deformities, both natural and acquired, to oral physiology. Correlation of all factors involved in the corrective and restorative procedures.

Prosthetics 260—Prosthetic lectures. Junior year.

Examination, classification, application of anatomical considerations, and clinical procedure in full and partial denture construction.

Prosthetics 261—Prosthetic clinic. Junior year.

Clinical construction of full and partial dentures.

Prosthetics 263—Prosthetic clinic. Senior year.

Clinical construction of full and partial dentures.

Prosthetics 264—Prosthetic lectures. Senior year.

A series of lectures by outstanding local practitioners in the prosthetic field on clinical considerations in partial denture diagnosis, design, and construction.

Prosthetics 265—Surgical prosthesis. Senior year.

Lectures and technical procedures in maxillofacial and surgical prosthesis.

PSYCHIATRY

Psychiatry 150—Psychiatry for the dentist. Sophomore year.

Lectures on mental hygiene and general principles involved in the field of psychiatry. The development and organization of the personality. The effects of emotional problems, in the development of psychological symptoms, and psychosomatic disorders. General considerations in psychotherapy.

PUBLIC HEALTH

Public Health 222—Principles of public health. Senior year.

Survey course in the theory and practice of preventive medicine, dentistry, and public health. Fundamental principles of administration, statistics, epidemiology, industrial hygiene, and sanitation. The principles and problems of dental public health practice are emphasized.

RADIOLOGY

Radiology 267—Oral radiology practice. Junior year.

Lectures, readings, and discussions on topics relative to oral radiology. Practice in exposing, processing, and mounting dental radiographs.

SURGERY

Surgery 270—Oral surgery. Junior year.

Lectures, seminars, demonstrations, and clinical practice on local anesthesia and the removal of teeth.

Surgery 272—Oral surgery. Senior year.

Lectures and conferences on oral and maxillofacial surgery and general anesthesia. Clinical practice in local anesthesia and the removal of teeth. Clinical demonstrations in the diagnosis and operative procedures in the treatment of diseases, injuries, and malformation about the face, jaws, and oral cavity.

Surgery 274—Oral surgery seminar. Senior year. Required.

Lectures and seminars in diagnosis and treatment-planning in the field of oral surgery. Case presentation.

THEORY AND PRACTICE OF DENTISTRY

Theory and Practice 281—Dental ethics and practice management. Senior year.

Lecture and conference course on dental ethics, economics, office conduct, and practice management.

Theory and Practice 282—Dental jurisprudence. Senior year.

Lecture and conference course in dental jurisprudence.

Theory and Practice 283—Dental history. Senior year.

Lecture and conference course. The development of the scientific principles of modern dentistry is discussed.

Theory and Practice 285—Comprehensive case. Senior year.

Each student is assigned a case for which he performs all the dental services: taking of X-ray negatives, treatment-planning, surgery, and reparative and restorative procedures. The services are carried out in the various clinical divisions, where grades are entered for the student toward the fulfillment of his clinical requirements. The oral examination accompanying the inspection of the completed case aims to correlate the teaching of the entire course.

Theory and Practice 286—Therapeutics. Sophomore year.

Lectures and conferences on drugs and other therapeutic agents used in dentistry. Formerly Pharmacology 250.

Theory and Practice 287—Dental history. Freshman year.

Lecture and conference course. The development of the scientific principles of modern dentistry is disaussed

TEXTBOOKS

The following list includes most of the books normally used. As a rule, only the latest editions of the textbooks should be purchased. Students are warned against buying any books until specifically advised by the departments concerned.

Anatomy. Gross anatomy: One of the following three: Stedman, Gould, or American, Medical Dictionary; Cunningham, Manual of Practical Anatomy, Vols. II and III; mimeographed Dissecting Directions; one of the following three: Grant, Atlas of Anatomy; Truex and Kellner, Detailed Atlas of the Head and Neck; or Spalteholz, Hand Atlas of Human Anatomy.

Applied anatomy: Shapiro, Applied Anatomy of the Head and Neck (2d ed.).

Embryology: One of the following three: Arey, Developmental Anatomy; Hamilton, Human Embryology; or Patten, Human Embryology.

Microscopic anatomy: Bailey, Textbook of Histology (12th ed.); mimeographed laboratory manual.

Neuroanatomy: Strong and Elwyn, *Human Neuroanatomy*; mimeographed laboratory manual.

Oral anatomy: Diamond, Dental Anatomy.

Oral histology and embryology: Orban, Oral Histology and Embryology.

Bacteriology: Jordan and Burrows, *Textbook of Bacteriology* (15th ed.); Laboratory Manual in Medical Bacteriology and Immunology.

BIOCHEMISTRY: Harrow, Textbook of Biochemistry (5th ed.); Karshan, Laboratory Manual of Biochemistry for Dental Students.

Dental Ethics and Practice Management: McGehee and Walker, Dental Practice Management.

Dental Therapeutics: Council on Therapeutics, American Dental Association, Accepted Dental Remedies.

DIAGNOSIS: Ziskin et al., Differential Diagnosis (1st ed.); Ziskin, Pulp Symptomatology (1943 ed.).

MEDICINE: Yater, Fundamentals of Internal Medicine (3d rev. ed.); Grossman, Root Canal Therapy.

OPERATIVE DENTISTRY: Black, Operative Dentistry, Vols. II and III; Operative Dentistry Syllabus.

Oral Pathology: Thoma, Oral Pathology (3d ed.); or Kronfeld, Histopathology of the Teeth (3d ed.).

ORTHODONTICS: Salzman, Principles of Orthodontics.

Pathology: One of the following four: Boyd, Textbook of Pathology; Karsner, Textbook of Pathology; Moore, Textbook of Pathology; or Anderson's Pathology.

PEDODONTICS: McBride, Juvenile Dentistry (4th ed. or later).

Periodontology: Goldman, Periodontia.

PHARMACOLOGY: One of the following four: Gaddum, *Pharmacology;* Goodman and Gilman, *Pharmacological Basis of Therapeutics* (1941); Sollman, *Pharmacology;* or Oldham, Kelsey, and Geiling, *Essentials of Pharmacology*.

Physiology: One of the following five: Wiggens, Physiology in Health and Disease (5th ed.); Fulton, Textbook of Physiology (16th ed.); Starling, Human Physiology (10th ed.); Best and Taylor, Physiological Basis of Medical Practice (1950), or Bard, Macleod's Physiology in Modern Physiology (9th ed.); and Physiology Laboratory Manual.

PROSTHETIC DENTISTRY: Skinner, Science of Dental Materials; Swenson, Complete Dentures; Tylman, Crown and Bridge Prosthesis; United States Government Printing Office, Physical Properties of Dental Materials; Young et al., Syllabus on Complete Dentures.

PSYCHIATRY: Streckner, Fundamentals of Psychiatry (4th ed.).

Radiology: McCall and Wald, Clinical Dental Roentgenology (2d ed.).

Surgery: Berger, Principles and Technique of Oral Surgery; Berger, Principles and Technique of the Removal of Teeth; Parker, Synopsis of Traumatic Injuries of the Face and Jaw; Homan, Textbook of Surgery.

Surgical Prosthesis: O. E. Beder, Surgical and Maxillofacial Prosthesis (1st ed.).

STUDENT ORGANIZATIONS

Omicron Kappa Upsilon

Epsilon Epsilon chapter of Omicron Kappa Upsilon, national honorary fraternity, was chartered in the School of Dental and Oral Surgery in 1934. The purpose of this organization is to recognize and honor a maximum of 12 percent of the members of the graduating Senior class, on the basis of scholarship, character, and possession of potential qualities for future professional growth and attainments.

The William Jarvie Society

The William Jarvie Society for Dental Research is a nonsecret, dental honor society, membership in which is based on scholarship and interest in dental research, and to which Sophomores, Juniors, and Seniors are eligible. The society was organized in the School of Dental and Oral Surgery in 1920 and named after Dr. William Jarvie because of his wide interest in the promotion of dental research. The society aims to promote the spirit of research among the students.

Registration of Student Organizations

Blanks for the registration of student organizations, other than those for which the responsibility is assumed by a faculty or department of instruction, may be obtained at

the room assignment desk in the office of the Registrar.

Such student organizations come under the jurisdiction of the Committee on Student Organizations of the University Council and may be granted the privileges of (a) the use of names in which the name of the University is embodied or suggested, and (b) the use of University rooms or grounds for meetings and bulletin boards for announcements, only if they have filed their registration blanks, furnishing the committee with lists of officers and other executive members, statements of purposes, copies of constitutions and bylaws, and information concerning the nature of any affiliation or connection with non-University organizations.

FACILITIES

Library

The Library occupies part of the three lower floors in the College building. It provides current literature (both books and journals) for faculty and students and it aids in research through its own collections of current and historical works and through its unique

bibliographical service.

The Library contains approximately 160,000 volumes of books and journals, some 5,000 pamphlets, and about 2,000 lantern slides on the history of medicine. More than 1,800 periodicals are received regularly. A professional library staff is available to aid students, faculty, and research workers in the Schools of Medicine, Dentistry, Nursing, Public Health, and the hospitals of the Medical Center.

The Library is normally open:

Monday-	Fri	day					8:30 а.м10:00 р.м.
Saturday							9:30 а.м 6:00 р.м.
Sunday							12 NOON-5:00 P.M.

University Libraries.—The libraries on Morningside Heights are open to all students of dentistry, and books may be borrowed for home use. They include collections on anatomy, biochemistry, public health, nursing, and other subjects related to dentistry and supplement the special collections available in the College of Physicians and Surgeons and in the New York Academy of Medicine, Fifth Avenue at 103d Street. The library of the College of Pharmacy, 115 West 68th Street, is also open to students in the School of Dental and Oral Surgery.

University Privileges

All students enrolled in the Dental School enjoy the privileges and facilities of the University campus, including access to the University libraries, Gymnasium, and other activities.

University Gymnasium.—The Gymnasium is situated on Morningside Heights and is open daily, except on Sundays and holidays. Students of the School of Dental and Oral Surgery may enjoy its privileges and have the use of the Gymnasium, baths, and private lockers.

Student Health Service

Daily office hours are held by the Student Health Service in Room 2-220 of the Vanderbilt Clinic. In addition, the physician-in-charge of the Health Service is available to attend ill students if they reside in the immediate vicinity of the Medical Center. Students requiring hospitalization will be taken care of either in the wards of the Medical Center under an insurance policy of the Associated Hospital Service of New York or elsewhere under the terms of its policy.

All entering students are required to have a dental examination in the School and to have all necessary dental work completed prior to graduation.

Religious Life

The life of the University community finds religious expression through St. Paul's Chapel and Earl Hall and through the ministry of the Chaplain and those associated with him in his work. The Chaplain of the University, the Rev. James A. Pike, is assisted by three religious counselors: the Rev. Samuel J. Wylie, Counselor to Protestant Students; the Rev. John K. Daly, Counselor to Roman Catholic students; and Rabbi Isidor B. Hoffman, Counselor to Jewish students.

Daily services are held in the Chapel, and students are urged to familiarize themselves with the schedules which are conveniently posted.

A number of student religious organizations are established to which the Chaplain and counselors serve as advisers and with which students are cordially urged to affiliate themselves.

The Chaplain and the counselors are especially eager to establish warm personal relations with students and to meet them in consultation, at the Chapel or in their offices in Earl Hall.

University Residence Halls

The Men's Residence Halls, located on the 116th Street Campus, house unmarried men students. For further information write direct to the Residence Halls Office, 125 Livingston Hall, Columbia University, New York 27, N. Y.

Johnson Hall, a residence hall for graduate women students, is available for unmarried women students on a room and board basis. For further information write to Miss Helen M. Carlson, Head of Johnson Hall, Columbia University, New York 27, N. Y.

The advance reservation deposit is payable upon receipt of room assignment. Checks must be made payable to Columbia University.

King's Crown Hotel

The King's Crown Hotel, 420 West 116th Street, in close proximity to the University, is owned by the University. It provides accommodations at reasonable rates, available for relatives and guests of members of the University community.

International House

International House, while not a University Residence Hall, is primarily a residence for students at Columbia University and other colleges and universities in New York City. It offers comfortable accommodations at reasonable rates. For further information, write directly to International House, 500 Riverside Drive, New York 27, N. Y.

Medical Center Bookstore

The Medical Center Bookstore, located on the second floor of the College of Physicians and Surgeons, is maintained for the convenience of the students and staff of the Medical Center schools and hospitals. The store carries a full stock of textbooks and all other student supplies. Substantial savings are effected whenever the rules of manufacturers and publishers permit. The store is open on weekdays from 8:45 a.m. to 5:30 p.m.; Saturdays, 8:45 a.m. to 1:30 p.m.

FELLOWSHIPS, SCHOLARSHIPS, AND PRIZES

Recipients of University financial aid in excess of tuition, whether in the form of fellowships, scholarships, or other grants, will be asked to reside in the University Residence Halls unless exempted by the appropriate Dean with the approval of the President upon the presentation of adequate reasons for living elsewhere.

Two Ellis Fellowships are awarded annually to qualified graduates of any of the colleges of recognized rank in the state of Vermont. The holders of these fellowships may pursue resident graduate studies under any one of the graduate schools maintained by the University, and are eligible for reappointment for not more than two additional years, with the proviso that a holder of the fellowship who is a student in medicine may be eligible for reappointment for not more than three additional years. The annual stipend is \$1,600. Applications should be submitted on or before February 20 on blanks to be filed with the Office of University Admissions.

See also "Graduate Courses in the Basic Sciences" on page 14.

The Van Woert Scholarship Fund was established by the alumni of the School of Dental and Oral Surgery in 1940. The award is given annually to a Senior student in the dental school who stands high in scholastic attainments, in personal character, and in potentiality of being a credit to Columbia University and the dental profession.

A prize known as the Ella Maria Éwell Medal is awarded annually to the student

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of the School of Dental and Oral Surgery who, in the judgment of the Faculty, is most proficient in some subject of dentistry.

The Alumni Association makes an annual award of the Rowe-Wiberg Medal to the

Senior student who has shown the greatest proficiency in prosthetic dentistry.

An annual award is made by the Sigma Epsilon Delta Fraternity to the graduating student who, in the opinion of the Faculty, shows the greatest promise.

An annual prize for excellence in pedodontics has been established by the Class of 1929.

The staff of the Division of Operative Dentistry has established an annual prize for excellence in operative dentistry.

Student Aid

Loan funds are provided in limited amount for the assistance of students. Application for loans should be filed during the month preceding the session for which they are requested.

Student Employment

Owing to the heavy schedule of the Dental School, it is difficult for dental students to undertake outside part-time work during the academic year and, so far as practical, other financial arrangements should be made.

OFFICERS OF INSTRUCTION

HAROLD ALEXANDER ABRAMSON Assistant Clinical Professor of Physiology A.B., Columbia, 1920; M.D., 1923
THOMAS HUNTER ALLEN
VIRGINIA APGAR
EDMUND APPLEBAUM
HENRY ARTHUR BARTELS
OSCAR E. BEDER
FRANK E. BEUBE
HAROLD WILLIAM BROWN Associate Dean (Public Health); Director, School of Public Health; Professor of Parasitology A.B., Kalamazoo, 1924; M.S., Kansas State, 1925; Sc.D., Johns Hopkins, 1928; M.D., Vanderbilt, 1933; D.P.H., Harvard, 1936
JACK BUDOWSKY
LESTER RICHARD CAHN
EDWARD A. CAIN, JR
Louis J. Cizek
E. Gurney Clark
¹ Hans Thacher Clarke
LOUIS ALEXANDER COHN
WILFRED MONROE COPENHAVER Associate Professor of Anatomy A.B., Western Maryland, 1921; Ph.D., Yale, 1925
Joseph Anthony Cuttita
Samuel Randall Detwiler
On leave 1951–1952.

Adolph Elwyn
EARL THERON ENGLE
JOHN WILLIAM FERTIG
Morris Fierstein
JOSEPH E. FLYNN
HARRY ALLEN GALTON
ALFRED GILMAN
LEONARD J. GOLDWATER
JOHN E. GORRELL Associate Professor of Hospital Administration B.S., Chicago, 1926; M.B., Northwestern, 1929; M.D., 1930
ROBERT GOTTSEGEN
WILSON C. GRANT
Magnus Ingstrup Gregersen Dalton Professor of Physiology A.B., Stanford, 1923; A.M., 1924; Ph.D., Harvard, 1930
JOHN M. HENDERSON
ROBERT E. HERLANDS
MAURICE J. HICKEY Associate Dean (Dental and Oral Surgery); Professor of Oral Surgery
D.M.D., Harvard, 1932; M.D., Columbia, 1937
George W. Hindels
HOUGHTON HOLLIDAY
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ALVIN R. JACOBSON
ELVIN A. KABAT

MAXWELL KARSHAN
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Nolan Don Carpentier Lewis
GEORGE FRANK LINDIG
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ARMAND OPPENHEIMER Assistant Clinical Professor of Dentistry B.S., Columbia, 1927; D.D.S., 1929
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MAX A. PLEASURE
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WALTER STANTON ROOT
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SOLOMON NATHAN ROSENSTEIN
WILLIAM J. SAVOY

32 COLUMBIA UNIVERSITY
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JOSEPH SCHROFF
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SHIH-CHUN WANG
EVELYN WITOL
EDWARD VICTOR ZEGARELLI
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IGNAZIO F. BOSCARELLI, D.D.S
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Ada R. Clark, Ph.D
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ROBERT DRELICH, D.D.S
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BARBARA JANE FINK, R.D.H
ROBERT L. FISHER, D.D.S
HERBERT PHILIP FRITZ, D.D.S

1 On leave 1951-1952 (Military Service).

HENRY MILCH, M.D
WILLIAM MILLER, D.D.S
WILLIAM JOHN MILLER, D.D.S
MELVIN L. MORRIS, D.D.S
ROBERT NELSON, M.D.,
HANS H. NEUMANN, M.D., Research Assistant in Dentistry
¹ Stanley F. Nief, D.D.S
Curt Proskauer, D.M.D Curator of the Museum, Dental and Oral Surgery
Arnold C. Rosenberg, D.D.S
Fred Rothenberg, M.D., D.D.S Instructor in Dentistry
JULIAN SCHROFF, D.D.S
Louis Laszlo Schwartz, D.D.S
¹ Steven Scrivani, D.D.S
Alexander Seelig, D.D.S
BOAZ SHATTAN, D.D.S
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HERBERT F. SILVERS, D.D.S
Franklin A. Squires, D.D.S
GEORGE STEIN, M.D., D.M.D Research Associate in Dentistry
Leo Stern, Jr., D.D.S
WALTER W. STEVENS, B.B.S
Wellington B. Stewart, M.D
BENJAMIN TENENBAUM, D.D.S Research Associate in Dentistry
¹ Joseph J. C. Thomson, D.D.S
FERDINAND A. TUOTI, D.M.D
¹ Ennio L. Uccellani, D.D.S
WILLIAM A. VERLIN, D.D.S
CLIFFORD L. WHITMAN, D.D.S
FREDERICK F. YONKMAN, Ph.D., M.D Lecturer in Pharmacology
¹ On leave 1951–1952 (Military Service).

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AARON L. ACKERMAN, D.D.S., M.P.H. JEROME BARTWINK, D.M.D. Daniel Blatman, D.D.S. SEBASTIAN A. BRUNO, D.M.D. HYMAN A. CITRON, D.D.S. DAVID A. DRAGIFF, D.D.S. ¹Jesse W. Field, D.D.S. IDA M. GOLOMB, D.D.S. EDWARD HEIDT, D.D.S. STANLEY S. HELLER, D.D.S. Hedda M. John, D.D.S. FRANK KANTER, D.D.S. JACOB I. KAPLAN, D.D.S.

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LENARD ZUCKERMAN, D.D.S.

Presbyterian Hospital Dental Service

LEWIS R. STOWE, Director of dervice

Attending Dental Surgeons

HOUGHTON HOLLIDAY CARL R. OMAN

IOSEPH SCHROFF GILBERT P. SMITH ARTHUR C. TOTTEN

Associate Attending Dental Surgeons

LESTER R. CAHN IRVIN L. HUNT, JR. BARNET M. LEVY

ALVIN S. NATHAN SOLOMON N. ROSENSTEIN WILLIAM J. SAVOY EDWARD V. ZEGARELLI

Assistant Attending Dental Surgeons

OSCAR E. BEDER Frank E. Beube JACK BUDOWSKY

EDWARD A. CAIN Boaz Shattan ADOLPH BERGER. Consultant

ALBIN R. SEIDEL, Consultant

Activities of the series of t

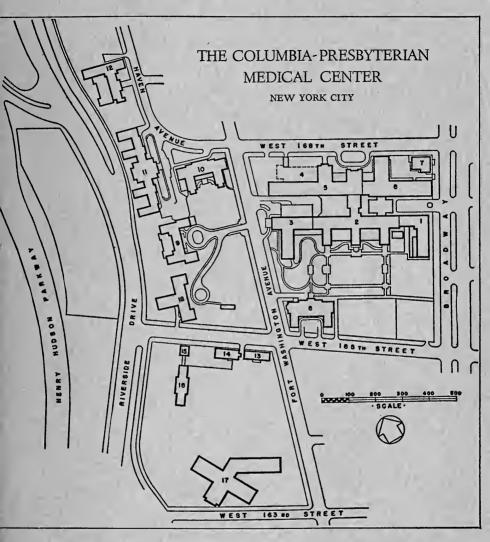
MAURICE J. HICKEY, D.M.D., M.D., Assistant Attending Surgeon STANLEY L. LANE, M.D., D.D.S., Assistant Attending Surgeon

1 On leave 1951-1952 (Military Service).

list France, delaprice Haggelow

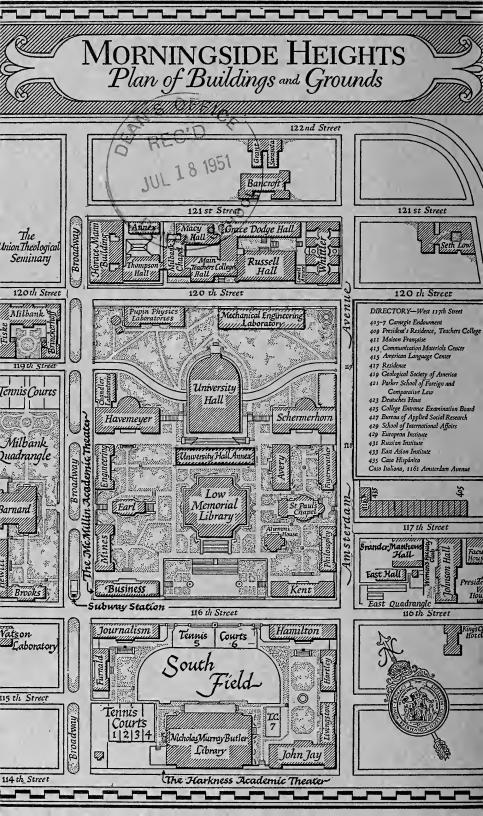






- 1. Babies Hospital
- Presbyterian Hospital Sloane Hospital New York Orthopaedic Hospital
- 3. Harkness Pavilion
- 4. Power plant
- 5. College of Physicians and Surgeons
- 6. Vanderbilt Clinic
 - School of Dental and Oral Surgery
- Washington Heights Health and Teaching Center, New York City Department of Health
 - School of Public Health

- 8. Institute of Ophthalmology
- 9. Maxwell Hall
- 10. Neurological Institute
- 11. New York State Psychiatric Institute and Hospital
- 12. Bard Hall
- 13, 16. Storage
- 14. Shops
- 15. Housing
- 17. Francis Delafield Hospital, New York City Department of Hospitals
- 18. Edward S. Harkness Memorial Hall



COLUMBIA UNIVERSITY BULLETIN OF INFORMATION

Fifty-second Series, No. 32

August 23, 1952



HEADNOUNCEMENT OF THE

SCHOOL OF DENTAL AND ORAL SURGERY

OF THE

FACULTY OF MEDICINE

1952-1953

COLUMBIA-PRESBYTERIAN MEDICAL CENTER 630 WEST 168TH STREET · NEW YORK 32, N.Y.

Columbia University Bulletin of Information

Fifty-second Series, No. 32

August 23, 1952

Issued at Columbia University, Morningside Heights, New York 27, N.Y., weekly from January for forty-two consecutive issues. Reentered as second-class matter October 24, 1951, at the Post Office at New York, N.Y., under the Act of August 24, 1912. Acceptance for mailing at a special rate of postage provided for in Section 1103, Act of October 3, 1917, authorized.

The series includes the Report of the President to the Trustees and the Announcements of the several Colleges and Schools relating to the work of the next year. These are made as accurate as possible, but the right is reserved to make changes in detail as circumstances require. The current number of any of these Announcements will be sent upon written application to the Office of University Admissions, 322 University Hall, Columbia University, New York 27, N.Y. Copies may be obtained in person from the Office of the Secretary, 213 Low Memorial Library.

C. U. P. 7,000-1952

Communications

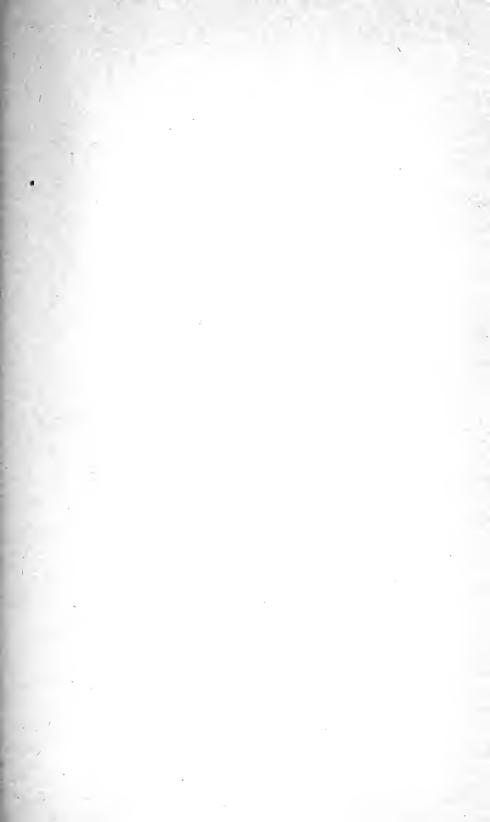
All communications regarding the School of Dental and Oral Surgery, applications for admission, and appointments for personal interviews should be addressed to the School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N.Y.; telephone: Wadsworth 3–2500.

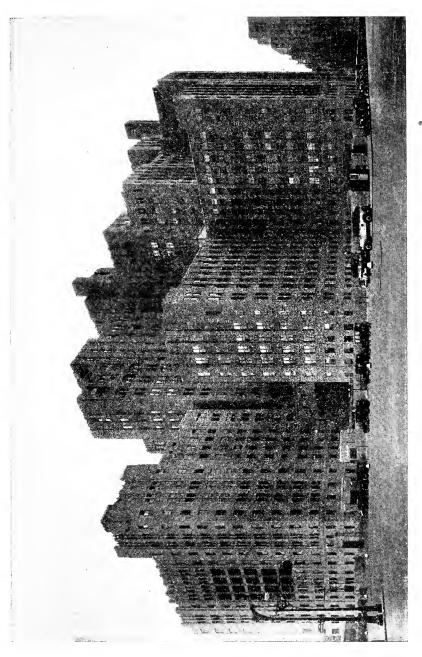
Announcements

The Announcements of each College or School and of the Summer Session may be obtained without charge by writing to the Office of University Admissions.

Letters requesting more detailed information than is contained in this Announcement and all correspondence regarding admission should be addressed to the Dean, School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N.Y.

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COLUMBIA UNIVERSITY PRESS





Columbia University in the City of New York

ANNOUNCEMENT OF THE

SCHOOL OF DENTAL AND ORAL SURGERY

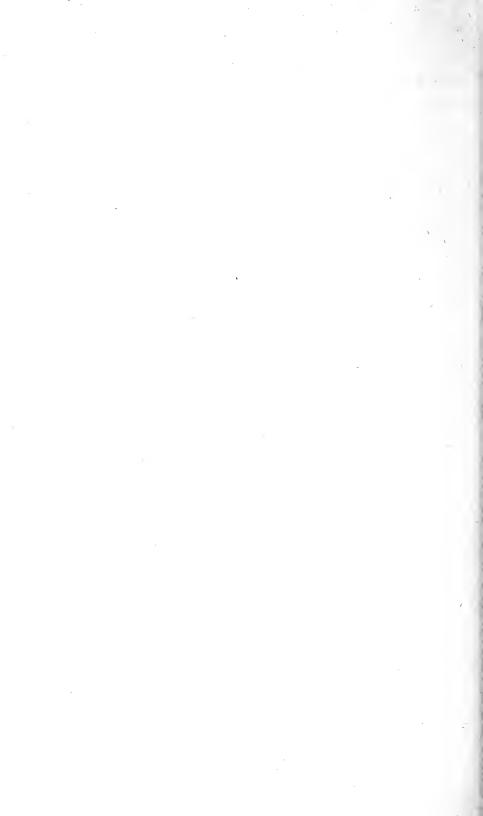
OF THE

FACULTY OF MEDICINE



1952-1953

COLUMBIA-PRESBYTERIAN MEDICAL CENTER
630 WEST 168TH STREET
NEW YORK 32, N.Y.



CONDENSED ACADEMIC CALENDAR

1952

September	11	Thursday, through September 13, Saturday. Registration, including payment of fees.								
September 15		Monday. Classes begin.								
November	4	Tuesday. Election Day. Holiday.								
November	27	Thursday. Thanksgiving Day. Holiday.								
November	29	Saturday. End of first trimester.								
December	1	Monday. Beginning of second trimester.								
December	22	Monday, through								
		1953								
January	4	Sunday. Christmas Holidays.								
February	12	Thursday. Lincoln's Birthday. Not a University Holiday.								
February	22	Sunday. Washington's Birthday. February 23, Monday, holiday.								
February	Pebruary 28 Saturday. End of second trimester.									
March 2		Monday. Beginning of third trimester. Last day for filing application or renewal of application for all degrees and certificates, except doctoral degrees, to be conferred in June. The privilege of later application may be granted on payment of a late fee.								
March	29	Sunday, through April 5, Sunday. Easter Holidays.								
May	23	Saturday. Last day of classes.								
May	25	Monday, through May 29, Friday. Final examinations.								
May	30	Saturday, Memorial Day, Holiday.								
June	2	Tuesday. Conferring of degrees.								

FACULTY OF MEDICINE

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Aura E. Severinghaus, Ph.D	Associate Dean (Medicine); Secretary
•	of the Faculty of Medicine
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ADMINISTRATIVE STAFF AT SCHOOL OF DENTAL AND ORAL SURGERY

Anna A. Berhowsky									. Assistant to the Registrar
Thomas P. Fleming, M.S.									Librarian

THE SCHOOL OF DENTAL AND ORAL SURGERY

Columbia University was founded in 1754 as King's College by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The Revolutionary War interrupted its active work, but in 1784 it was reopened as Columbia College. In 1912 the title was changed to Columbia University in the City of New York.

From its inception, the program of dental education at Columbia University has been fostered by and associated with the University's School of Medicine. The Faculty of Medicine at its stated meetings of November and December, 1915, recommended to the Trustees that a dental school be established in the University on "University Lines."

The President of the University in his annual report of 1916 informed the Trustees that "during the year a group of men have come forward with a well-supported proposal that there be established in connection with the Medical School, a school for the training of dental surgeons." The President also reported that "the project was carefully formulated and presented to the Medical Faculty and received the formal approval of that Faculty and later of the Trustees."

In May, 1916, the University issued a pamphlet entitled A Dental School on University Lines. In this pamphlet the University stated its intent to establish a school of dentistry in affiliation and coordination with the School of Medicine. The pamphlet's introductory statement outlined the University's policy for dental education which has been consistently followed:

"Dentistry and Dental Education are on the threshold of extraordinary development but are unable to take advantage of their opportunities because of the traditional separation of dentistry and medicine. Dentistry has been shown by recent investigations and research to be logically a branch of general medicine."

In the fall of 1917 James N. Jarvie gave a substantial sum to a fund "to found and maintain the proposed dental school of the University, described in the pamphlet entitled A Dental School on University Lines issued by Columbia University, May 1916."

In September, 1916, students in dentistry were admitted to courses in Columbia University at the School of Medicine. On March 5, 1917, the Trustees of the University established a school of dentistry as of September 27, 1916, and from that date the School became an integral part of the University. On March 1, 1920, the dental building adjacent to the School of Medicine and Vanderbilt Clinic was finished and assigned to the use of this School.

On July 1, 1923, the College of Dental and Oral Surgery of New York (organized in 1905) was merged with the School of Dentistry, and the combined institutions named the School of Dental and Oral Surgery of Columbia University. By this merger Columbia acquired two large buildings, at 302–306 East 35th Street and 309–315 East 34th Street, in which the School was housed up to the time of moving into the Medical Center.

The merging of the schools did not alter the University's policy for dental education. In the 1923–1924 Announcement of the School of Dental and Oral Surgery this policy was reaffirmed by the statement, "It is the purpose of the School of Dental and Oral Surgery to combine in the highest degree practicable a sound knowledge of the funda-

mentals of medicine with adequate training in the technical procedures of dental science and arts."

In September, 1928, the School was moved to the Columbia University-Presbyterian Hospital Medical Center. The dental department of the School occupies three floors, a net area of forty thousand square feet. The fundamental science subjects, which are given to both dental and medical students, are taught in the adjoining College of Physicians and Surgeons, the corridors of the two schools being continuous. In adjacent wings, the halls of which are also continuous with those of the School, the wards and outpatient departments of the Presbyterian and associated hospitals are located, thus giving the closest possible contact and association with all branches of health service. The Dental School clinic includes as one of its functions the dental care of the patients of the Medical Center hospitals.

In order to strengthen the instruction of dental and medical students and to fulfill a further step in the integration of dental education and research with the medical program at the Columbia-Presbyterian Medical Center which was visualized when the Dental School was made a part of the Center in 1928, the Faculties of the two schools were merged July 1, 1945. This Faculty is responsible for the educational programs in medicine, dentistry, public health, and nursing. A committee on dental education, established by University statute, of which a majority is from the Department of Dental and Oral Surgery and of which the Associate Dean for Dental and Oral Surgery is the chairman, initiates recommendations to the Faculty on the qualifications and admission requirements for dental students, the curriculum of instruction, the candidates for the degree of Doctor of Dental Surgery, and other educational matters dealing with dentistry.

The course in dentistry covers four academic years and leads to the degree of Doctor of Dental Surgery. The greater part of the first two years of the curriculum is taken in the fundamental science departments of instruction in the University, which are integral parts of the College of Physicians and Surgeons and the School of Dental and Oral Surgery.

REQUIREMENTS FOR ADMISSION, PROMOTION AND GRADUATION

ADMISSION TO FIRST YEAR OF THE SCHOOL OF DENTAL AND ORAL SURGERY

Application.—It is desirable that candidates make application during the academic year preceding that for which they seek admission. It is not necessary to complete the academic requirements before making application. However, all requirements must be completed before matriculation. Application blanks will be furnished by the Office of the Committee on Admissions of the School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N.Y. Every application should be accompanied by a check or money order for five dollars, payable to Columbia University, to cover the cost of processing the application. This fee is not returnable.

The minimum requirement for admission to the first-year class is the satisfactory completion of three full years at an acceptable college of arts and sciences, which must

include the satisfactory completion of the following courses required by the New York State Board of Regents:

	Semester Hours
English composition and literature	6
Physics	6
Biology	6
Chemistry (including an approved course in organic	
chemistry)	12

A point or semester hour is the equivalent of one hour of lecture or recitation plus two hours of outside work or three hours of laboratory work per week, per semester. Suitable laboratory work must be included in each of the courses in science.

Inasmuch as an understanding of the biological sciences is based upon the knowledge of the underlying sciences of chemistry, physics, and biology, students are urged, so far as time permits, to take additional courses in quantitative, qualitative, physical, and organic chemistry, physics, comparative anatomy and other advanced courses in biology, as well as courses in mathematics, German and French, sociology, history, and other subjects of general cultural and scientific value. Courses in fine and industrial arts are also useful.

Owing to the limited number of students who can be accommodated, completion of the requirements for entrance does not guarantee admission. The entire college record of each student is carefully examined by the Committee on Admissions in order that those who are judged most capable of meeting the exacting demands of the course and of the profession of dentistry may be selected. Preference will be given in the selection of students to those who present to the Committee on Admissions evidence of high achievement in selected college courses of special predental value and who, in the opinion of the Committee on Admissions, are most likely to succeed in dentistry, rather than to those who present the largest number of course credits or those who have limited their preparation to the prescribed subjects. Acceptance of a student for admission is based on grounds of character and health as well as on the fulfillment of academic requirements.

An acceptance fee of \$50 is payable within ten days after notification of acceptance

(see page 10).

All applicants will be required to take the Dental Aptitude Tests conducted by the Council on Dental Education at various testing centers throughout the United States and Canada. For further information apply directly to the Division of Aptitude Testing, Council on Dental Education of the American Dental Association, 222 East Superior Street, Chicago 11, Illinois.

COMBINED COURSES

Combined Courses with Columbia College.—Upon receiving ninety-six points credit, sixty-four of which must be for work in Columbia College, including all the work prescribed for the degree of Bachelor of Arts in Columbia College, a student may take studies in the first year of the School of Dental and Oral Surgery, provided he can satisfy the stated requirements and is accepted for admission therein, and will receive the degree of Bachelor of Arts from Columbia College upon the satisfactory completion of the year's work. No course may be counted toward a professional degree and at the same time be included among those which go to make up the ninety-four points referred to above. Combined Courses with Barnard College.—Students from Barnard College may exercise

the professional option after the completion of ninety points of academic work, including all grouped work and a major of twenty-eight points unless this number is reduced in individual cases by special permission of the Committee on Instruction of Barnard College.

Combined Courses with the School of General Studies.—Students from the School of General Studies may exercise the professional option after the completion of ninety-four points, including all the courses prescribed for the Bachelor of Science degree, not less than sixty-four of which have been received for work in Columbia University.

Combined Courses in Dentistry and Medicine.—It is usually possible for a graduate of a registered medical school with the degree of Doctor of Medicine to meet the requirements of the School and receive the degree of Doctor of Dental Surgery by the satisfactory completion of a special two-year course, which may include one Summer Session.

ADMISSION OF FOREIGN STUDENTS

The State Department of Education has special requirements with which students who are not citizens of this country must comply. Any foreign student desiring to apply to the School of Dental and Oral Surgery should communicate with the Dean.

REGISTRATION

Before attending University courses, every student must present himself at the office of the Registrar and file a registration blank giving such information as may be required. The periods set aside for registration in each session are stated in the Academic Calendar at the beginning of this Announcement. Registration at a later date is permitted only with the written permission of the Dean, satisfactory cause for the delay having been shown.

FEES

The University Statutes provide that tuition fees, the University fee, and laboratory deposits are payable semiannually in advance. No reduction is made for late registration. Registration will not be complete until such fees are paid. Checks should be drawn to the order of Columbia University and presented in person or mailed to the office of the Bursar. Payment of fees after the last day of registration (see the Academic Calendar) imposes automatically the statutory charge of \$3.00 for the privilege. Under the regulations, the privileges of the University are not available to any student until he has completed his registration.

The fees to be paid by students are subject to change at any time at the discretion of the Trustees.

The following annual fees are prescribed for dental students:

a) University Fee

 For each Winter or Spring Session or any part thereof, for students enrolled for:

Tolica for:	
One to four points, inclusive	\$ 5.00
More than four points to nine points, inclusive	10.00
More than nine points	20.00
2. For each Summer Session or any part thereof	7.00
3. For registration as engaged in research only for any period not longer than	

3. For registration as engaged in research only for any period not longer than
a Winter or a Spring Session
20.00

b) Tuition Fee

For the course in dentistry for one academic year (or equivalent) in the case of a student enrolled for the full course, payable in two installments \$825.00 For students not enrolled for the full course, fees are to be assessed by the Registrar as provided by the University Statutes.

c) Fee for Application

For a degree	20.00
For a certificate	10.00

d) Privileges

1. Late registration or late application for a degree or for deficiency or special	
examinations	3.00
2. Deficiency or special examinations	3.00
3. Renewal of application for any degree	1.00

e) Student Health Service Fee

This fee will be used to pay the annual premium of the Associated Hospital
Service of New York for hospital insurance and to pay part of the cost of the
student health service.
For all students, per academic year

20.00

5.00

f) Case Rental

For Sophomores,	Juniors, and	Seniors,	rental for	one instrument	case, for
one academic ye	ar, payable i	n two ins	tallments		

g) Rebates

 The University fee and the fee for application for any degree shall not be subject to rebate.

2. No tuition fee shall be returned for any course which the student may for any reason discontinue. Exception to this rule may be made only in cases of total withdrawal from the University, when a partial return of fees may be authorized by the Registrar.

When a rebate is allowed for the discontinuance of courses or withdrawal from the University, such rebate will be reckoned from the day upon which the Registrar receives notice from the student.

Acceptance Fee.—Within ten days after an applicant has been notified that his application has been accepted, he must notify the Dean that he intends to matriculate and accompany his communication with a check or money order for \$50, payable to Columbia University. This acceptance fee will belong to the University and if the applicant does not register at the School for the specific session, it will not be returned. If he registers at the School at the next enrollment of entering students, the amount of the acceptance fee will be deducted from his tuition fees for that session.

Fee for Processing of Application.—A fee of \$5.00 is charged to every student who applies for admission to the School of Dental and Oral Surgery or the School of Medicine. This fee covers the cost of processing the application.

Fees for Repeated Courses.—Students obliged to repeat the work for any year are required to pay the full tuition fee.

DENTAL EQUIPMENT

Instruments and Supplies.—Each student is required to supply himself with instruments as specified in the official instrument list. The purchase from the University of instruments in original package outfits has been made compulsory, and unauthorized or incomplete equipment will not be accepted by the instructors. All technique material and regular supplies must be purchased from the University upon order from the instructor. The students will not be allowed to purchase more than is required to complete a case. The quantity and quality are selected with a view to the best possible results and conservation of the student's best interests.

Microscopes.—All students entering the School of Dental and Oral Surgery are required to provide themselves with microscopes of a satisfactory type. A microscope of standard make fitted with the following attachments will fill the requirements:

- a. Triple nosepiece.
- b. Abbe condenser.
- c. 10x and 6x oculars.
- d. 16 mm. and 4 mm. objectives.
- e. Oil immersion lens.

Lockers.—Each student will be assigned a locker on entering and will be required to use a combination lock as prescribed by the School.

ESTIMATED EXPENSES

Following is an itemized estimate of the average expenses of a full-time student for an academic year in the School of Dental and Oral Surgery exclusive of travel, clothing, amusements, charity, organizations, and sundries. These items are, of course, variable but should not be overlooked in estimating the total expense. The tuition, room, board, books, and laundry figures are based upon the rates which prevailed during 1951–1952 and can be accepted as applicable in general for the year 1952–1953 unless national economic changes require their alteration.

	Average	Minimum
Tuition and University fees	\$ 865	\$ 865
Miscellaneous fees	55	30
Room	330	297
Board	385	350
Books	150	115
Instruments (see below)	325	325
Laundry	75	35
	\$2,185	\$2,017

These estimates are subject to correction as the basic prices of supplies and instruments change. Instruments are to be paid for at the opening of the academic year. The cost of books will vary, depending upon the choice made from the selection offered.

STUDENTS

Each person whose registration has been completed will be considered a student of the University during the session for which he is registered unless his connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the specific authorization of the dean or director of the school or college of the University in which he is first registered.

Students prevented by conscientious scruples from complying with academic requirements which may be fulfilled only upon days set apart by their church for religious ob-

servance should make application to the Dean for an equitable solution.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University, which is free to cancel his registration at any time on any grounds which it deems advisable. The disciplinary authority of the University is vested in the President in such cases as he deems proper, and, subject to the reserved power of the President, in the dean of each faculty and the director of the work of each administrative board.

WITHDRAWAL

An honorable discharge will always be granted to any student in good academic standing and not subject to discipline who may desire to withdraw from the University; but no student under the age of twenty-one years shall be entitled to a discharge without the assent of his parent or guardian furnished in writing to the proper dean. Students withdrawing must notify the Registrar immediately.

The Dean of the School may, for reasons of weight, grant a leave of absence to a stu-

dent in good standing.

REQUIREMENTS FOR PROMOTION

1. A student may be admitted to the second, third, or fourth year of the dental curriculum only upon the recommendation of the class officers of instruction under whom he has studied during the preceding year.

2. The School of Dental and Oral Surgery reserves the right to refuse readmission or promotion to any student who is believed for any reason to be unsuited to the conditions

of study in the school.

Students are classified for readmission or promotion under the following headings:

I. Recommended for advancement.

II. Recommended for readmission to the same class.

III. Recommended neither for advancement nor for readmission to the same class:

a) Because of failure.

b) Because they fall under paragraph 2 of requirements for promotion.

GRADING OF STUDENTS

The following grade equivalents are used: A, excellent; B, good; C, fair; F, failure.

REQUIREMENTS FOR GRADUATION

In addition to complying with the requirements for admission and to completing the required work of the curriculum, each candidate for the degree of Doctor of Dental Surgery must present satisfactory evidence as required by law of good moral character and of having attained the age of twenty-one years. If the candidate shall have been admitted to advanced standing, he must have spent not less than four academic years or their equivalent in approved medical or dental colleges in the study of the subjects making up the curriculum of the School of Dental and Oral Surgery.

GRADUATION .

Commencement occurs in June, at which time all recipients of degrees awarded during the academic year are expected to attend the exercises. Diplomas are issued in June or at various times during the year.

No degree will be granted to a student who has not registered for and attended at the University courses of instruction equivalent to at least one academic year of full-time work.

An application for a degree or certificate, other than the several doctoral degrees, terminates at the next regular time for the issuance of diplomas subsequent to the date of filing; but under conditions prescribed by the respective faculties it may be subject to renewal for a fee of \$1.00 each time that a candidate chooses to come up for consideration, within a period not to exceed three years. Thereafter with the filing of a second application the regular fee is again payable—\$20 in the case of a degree and \$10 in the case of a certificate.

Dates for the filing of applications are given in the Academic Calendar at the beginning of this Announcement.

COURSES FOR DENTAL HYGIENISTS

In September, 1947, the period of training for dental hygienists was increased from one to two academic years. On October 21, 1947, the University Council approved the establishment of the degree of Bachelor of Science to be conferred upon students who, having been admitted on the basis of two years of approved college study covering not less than sixty points in liberal arts subjects (including satisfactory courses in English, biological science or chemistry, and sociology or psychology), complete the course of instruction in the field of dental hygiene, consisting of two academic years of study, prescribed by the Faculty of Medicine.

Candidates for admission must be women between the ages of eighteen and thirty-five years and must present a record of good health. All candidates are required to make formal application in writing on blanks supplied by the School. After the application has been submitted, the academic record of the candidate should be sent to the School at the request of the candidate. Wherever possible, a personal interview is required before the candidate is accepted.

Applicants must satisfy the following requirements: Two years of sixty semester hours of credit in liberal arts from a college or university approved by Columbia University. The following subjects are required:

	Semester Hours
English	6
Biological science or chemistry	3
Sociology or psychology	3

Upon the successful completion of the two-year curriculum in dental hygiene, the Bachelor of Science degree will be conferred.

Applicants who lack not more than eight credits of the sixty credits required for admission will be considered for matriculation on the condition that the eight credits be earned during the Summer Session between the Junior and Senior years.

For further information address the Director, Courses for Dental Hygienists, 630 West

168th Street, New York 32, N.Y.

SHORT COURSES FOR GRADUATES IN DENTISTRY

The School of Dental and Oral Surgery arranges courses in the various divisions of dentistry to meet the needs of groups of practitioners. In 1952-1953 short refresher courses will be offered in various subjects.

Admission requirements include graduation from an approved dental school and licensure to practice dentistry within the United States or a foreign country. There is no degree or certificate offered for these courses. For further information see the Announcement of Postgraduate Courses for Dentists, which may be obtained from the Dean, School of Dental and Oral Surgery.

CERTIFICATE OF TRAINING

The School of Dental and Oral Surgery is authorized to grant certificates of training in special branches of dentistry. The course of study for the certificate of training includes not less than thirty credits of special work in the clinical and basic science branches of dentistry approved by the Dean. At present, an organized sixteen-month course is offered to qualified graduates in dentistry who wish to prepare for specialization in orthodontics. Advanced courses leading to certificates of training are also offered in oral diagnosis and roentgenology, oral surgery, pedodontics, and periodontology. For further information see the Announcement of Postgraduate Courses for Dentists, which may be obtained from the Dean, School of Dental and Oral Surgery.

GRADUATE COURSES IN THE BASIC SCIENCES

A limited number of fellowships are available to graduates of dental schools acceptable to Columbia University. These fellowships offer opportunity for study in the following basic science departments of the University: anatomy, biochemistry, microbiology, pathology, pharmacology, and physiology. For further information regarding qualifications and stipend, address the Dean, School of Dental and Oral Surgery.

COURSES LEADING TO THE DEGREE OF DOCTOR OF PHILOSOPHY

Graduation from accredited dental schools under the present curriculum of four academic years preceded by three acceptable predental college years is considered by the Graduate Faculties of Columbia University as meeting the general requirement for admission. There are additional admission requirements in certain departments. A student who is accepted by the Graduate Faculties as a candidate for the degree of Doctor of Philosophy and who holds the Doctor of Dental Surgery degree from Columbia University may, with the consent of the Dean, offer the work done for the professional degree in lieu of thirty points toward the fulfillment of the residence requirement for the degree. For further information see the Announcement of the Faculty of Pure Science, which may be obtained by writing to the Office of University Admissions, 322 University Hall, Columbia University, New York 27, N.Y.

PUBLIC HEALTH FOR DENTISTS

A one-year course leading to a Master of Public Health degree is offered by the School of Public Health. The course is open to graduate dentists. For further information regarding course content, registration, and fees, apply to the Director, School of Public Health, 600 West 168th Street, New York 32, N.Y.

LICENSE TO PRACTICE DENTISTRY IN NEW YORK STATE

Those desiring to take the New York State Board examinations are advised to address the Bureau of Professional Education, New York State Department of Education, 23 South Pearl St., Albany 7, N.Y. All applications for admission to the examinations should be completed at least thirty days before the examinations begin.

The examinations are conducted by the Department, and answer papers are read and marked by the Board, who know the candidate only by number. The subjects of the licensing examinations are anatomy, chemistry and metallurgy, operative dentistry and radiography, therapeutics and materia medica, physiology and hygiene, oral surgery, pathology and bacteriology, prosthetic dentistry, oral diagnosis, and histology. The operative and prosthetic subjects are divided into theory and practice. The minimum standing required in each subject is 75 per cent.

The State Department of Education will admit conditionally to the examination in anatomy, physiology and hygiene, chemistry and metallurgy, and histology, applicants over nineteen years of age who are of good character, who are citizens of the United States or have declared their intention of becoming citizens in accordance with the law, who have completed the prescribed preliminary education requirement, and who are certified as having successfully completed the first two years of the required course in a registered dental school.

PLAN OF INSTRUCTION

The curriculum is arranged with the object of providing the student with the necessary opportunities for acquiring a knowledge of the fundamental sciences in relation to dentistry and the techniques of approach in dental problems. Beginning in the first two academic years with a study of the basic sciences, particularly anatomy, biochemistry, microbiology, pathology, pharmacology, and physiology, the student prepares himself for an understanding of the problems to be encountered in his later clinical work. The third and fourth academic years are devoted to mastering the methods of diagnosis and treatment of patients and acquiring a knowledge of disease patterns and the arts and skills required in preventing, curing, or controlling them.

Throughout the entire course an effort is made to interrelate the different phases of the dental learning by means of "correlative" and "combined" clinics in which the various departments and divisions cooperate in the discussion and demonstration of the same and related problems and thus treat the study of dentistry as a unit rather than a series of isolated branches of learning. At the same time an attempt is made to individualize instruction and to place responsibility as far as practicable upon the student for his own training. This is accomplished by means of the division of classes into small

sections, conferences, and the comprehensive case method of instruction.

CURRICULUM

1952-1953

Subjects*	Lecture or Seminar Hours	Lab. or Clinic Hours	Total Hours
FIRST YEAR			
Anatomy			
Embryology 152 F	18		18
Gross 151 FS	50	222	272
Microscopic 150 FS	42	126	168
Neuro 153 T	30	36	66
Oral 101 ST	19	82	101
Biochemistry 150 ST	38	117	155
Histology, Oral 115 ST	25	52	77
Physiology 150 FS	56	152	208
Theory and Practice			
Dental History 287 T	10		10
			1,075

^{*} Letter following course number designates trimester: $F \equiv$ first, $S \equiv$ second, and $T \equiv$ third.

Subjects*	Lecture or Seminar Hours	Lab. or Clinic Hours	Total Hours
SECOND YEAR			
Crown and Bridge 105 ST	20	184	204
Dental Materials 126 FS	10	56	66
Microbiology 151 F and 152 F	43	99	142
Operative Dentistry 131 FST	20	187	207
Pathology 150 FS	54	141	195
Periodontology 151 T	10	44	54
Pharmacology 150 ST	55	33	88
Prosthetic Dentistry 157 FST	20	198	218
Psychiatry 150 S	11		11
Surgery, Principles 168 ST	10		10
Surgery, Oral 270A ST	10		10
Theory and Practice			
Therapeutics 286 T	10		10
_			1,215
THIRD YEAR			
Anatomy, Applied 252 S	10		10
Crown and Bridge			
Technique 205 F		96	96
Clinic 206 ST	10	114	124
Applied Occlusal Dynamics 212 T		30	30
Diagnosis 212 FST	30	25	55
Operative Dentistry 233 FST	10	276	286
Orthodontics 241 F	20	60	80
Pathology, Oral 246 FS	20	6о	8o
Periodontology 251 S		30	30
Practice of Medicine 278 ST	40	22	62
Prosthetic Dentistry 260 FST and 261 FST	20	177	197
Radiology 267 F	10	15	25
Surgery, Oral 270B F	10	20	30
			1,105
FOURTH YEAR			
Crown and Bridge 210 FST and 211 FST	10	165	175
Diagnosis 213 F		25	25
Diagnosis Seminar 214 S		30	30
Diagnosis 215 T (continuation of 214)	10		10
Orthodontics 242 FST		30	30
Operative Dentistry 234 FST	20	305	325
Pedodontics 202 FST	10	87	97
Periodontology 252 FS and 253 FS	20	30	50
Prosthetic Dentistry 263 FST and 264 FST	10	165	175
Public Health 222 S	20		20
Surgery, Oral 272 FST	40	60	100
Surgery Seminar 274 T	10		10
Surgical Prosthesis 265 T		30	30
Theory and Practice			
Dental History 283 F	10		10
Ethics, Jurisprudence and Practice Man-			
agement 281 FST	30		30
Comprehensive 285 T			
			1,117

^{*} Letter following course number designates trimester: $F \equiv$ first, $S \equiv$ second, and $T \equiv$ third.

COURSES OF INSTRUCTION

For purposes of instruction the work of each academic year is scheduled in three sessions of eleven weeks each, which are designated as First, Second, and Third Trimesters.

For a detailed statement of the content of each course, the student is referred to the departmental statements which follow.

The outline on pages 16 and 17 shows the work required of a candidate for the degree of Doctor of Dental Surgery. The University reserves the right to make such changes in the program of studies at any time as experience may prove desirable.

ANATOMY

Anatomy 101—Oral anatomy. Freshman year.

Lectures on gross anatomy of the teeth and related tissues. Laboratory reproduction of individual teeth in wax. Setting up teeth in occlusion. Restoring anatomy of carious teeth in wax and macroscopic study of structural parts of teeth.

Anatomy 115—Oral histology and embryology. Freshman year.

Lectures and laboratory work on growth and development of the jaws and face; microscopic anatomy of the teeth and surrounding and related tissues of the oral cavity. Application of this knowledge to technical dentistry.

Anatomy 150-Microscopic anatomy. Freshman year.

Lectures, conferences, and laboratory.

This course is the same as Anatomy 101F in the Medical School.

Anatomy 151—Gross anatomy. Freshman year.

Lectures, conferences, and laboratory.

Anatomy 152—Embryology. Freshman year.

Lectures and demonstration dealing with the dynamics of vertebrate development, with particular reference to mammals and man.

Anatomy 153—Neuroanatomy. Freshman year.

Lectures and demonstrations on the gross anatomy, structure, and functions of the central nervous system. This course is equivalent to *Anatomy 106S* in the Medical School.

Anatomy 252—Applied anatomy of the head and neck. Junior year.

Lectures and demonstrations. A review course with special application to the problems of the major fields of dentistry.

BIOCHEMISTRY

Biochemistry 150-Introductory biochemistry. Freshman year.

Lectures and laboratory. A study of the chemistry of life processes with special reference to the animal organism.

DENTAL MATERIALS

Dental Materials 126—Physical properties of dental materials. Sophomore year.

Lectures and laboratory on the physical and chemical properties of the metals and other materials used in dentistry, with clinical applications.

DIAGNOSIS

Diagnosis 212—Dental diagnosis lecture and clinic. Junior year.

Lectures and clinical practice in diagnostic procedures, comprehensive diagnosis, pulp symptomatology, radiographic interpretation, and diagnosis of lesions and diseases of the oral cavity.

Diagnosis 213—Dental diagnosis clinic. Senior year.

Continuation of clinic of Diagnosis 212.

Diagnosis 214—Diagnosis seminar. Senior year.

Discussion and differential diagnosis of diseases of the oral cavity.

Diagnosis 215—Diagnosis seminar. Senior year.

Continuation of Diagnosis 214.

MEDICINE

Medicine 278—General survey of medicine. Junior year.

Lectures and conferences covering phases of general medicine; also clinics in which patients are studied for conspicuous manifestations of systemic conditions and their significance.

MICROBIOLOGY

Microbiology 151—General medical microbiology and immunology. Sophomore year.

Lectures, conferences, and laboratory.

Microbiology 152—Principles of microbiology, immunology, and epidemiology. Sophomore year.

This course is identical with *Microbiology 105F* in the Medical School except that lectures on the mouth bacteria are substituted for several of those of the medical series.

OPERATIVE DENTISTRY

Operative Dentistry 131—Elements of operative dentistry. Sophomore year.

Lectures on the fundamentals of operative dentistry, including the etiology of dental caries and the biological approach to the technical procedures in the filling of teeth. The study of dental materials, including the technique of porcelain inlay construction.

Operative Dentistry 233—Operative clinical practice. Junior year.

Introduction to clinical practice. Lectures on the application of operative fundamentals to clinical practice, Clinical practice and demonstrations.

Operative Dentistry 234—Advanced clinical practice. Senior year.

A continuation in lectures and clinic of Operative Dentistry 233 with the consideration of special problems in operative practice, including endodontia.

ORTHODONTICS

Orthodontics 241—Principles of orthodontics. Junior year.

Lectures and laboratory. Orthodontic fundamentals with special emphasis on prevention of malocclusion in orthodontics by the early recognition and correction of the predisposing factors. Laboratory time is devoted to the designing and constructing of removable appliances used as space maintainers and habit breakers and to correcting tooth alignment in preparation for restorative dentistry and treatment of periodontal conditions. Clinical practice in the use of appliances constructed in the laboratory.

Orthodontics 242—Orthodontic clinic. Senior year.

Clinical orthodontics.

PATHOLOGY

Pathology 150—General and special pathology. Sophomore year.

A study of important pathological conditions, demonstrated by museum specimens and a very complete series of histological preparations.

Pathology 246-Oral pathology. Junior year.

Lectures, conferences, and laboratory work on the diseases of the jaws, mouth, and teeth.

Pathology 247—Oral pathology seminar. Senior year. Elective.

Conferences on the clinical application of oral pathology.

PEDODONTICS

Pedodontics 202—Pedodontics lectures and clinic. Senior year.

Lectures and conferences on operative dental procedures for children, management of child dental patients, and the application of present knowledge of dental development and preventive dentistry. Clinical work includes history-taking, prophylaxis, and restorative procedures adapted to deciduous and early permanent dentitions.

PERIODONTOLOGY

Periodontology 151—Periodontia clinic. Sophomore year.

Lectures and clinics on dental prophylactic technique and early disturbances of the periodontium.

Periodontology 251—Periodontia clinic. Junior year.

Lectures and clinics in the diagnosis and treatment of periodontal diseases.

Periodontology 252—Periodontology lectures. Senior year.

Lectures and conferences on the theory and practice of periodontology and periodontal histopathology.

Periodontology 253—Periodontia clinic. Senior year.

Work in clinics in the diagnosis and treatment of advanced periodontal diseases.

PHARMACOLOGY

Pharmacology 150—Pharmacology. Sophomore year.

Lectures, conferences, and laboratory. In this course the pharmacological action of drugs on man and lower animals is studied.

PHYSIOLOGY

Physiology 150—Mammalian physiology. Freshman year.

Lectures, conferences, and laboratory.

PROSTHETIC DENTISTRY

Prosthetics 105—Crown and bridge lectures and technique. Sophomore year.

Lectures on the technical procedures in crown and bridgework, with practical application, and the construction of bridges and crowns on technique models.

Prosthetics 157—Prosthetic lectures and technique. Sophomore year.

Lectures and technical procedures in full and partial denture construction.

Prosthetics 205—Crown and bridge lectures and technique. Junior year.

Lectures on the clinical procedures in crown and bridgework.

Prosthetics 206—Crown and bridge clinic. Junior year.

Clinical construction of elementary crown and bridgework.

Prosthetics 210—Crown and bridge lectures. Senior year.

Lectures and conferences on various types of bridgework.

Prosthetics 211—Crown and bridge clinic. Senior year.

Clinical construction of crown and bridgework.

Prosthetics 212-Applied occlusal dynamics. Junior year.

Lectures, demonstrations, and technique stressing the relationship of occlusal deformities, both natural and acquired, to oral physiology. Correlation of all factors involved in the corrective and restorative procedures.

Prosthetics 260—Prosthetic lectures. Junior year.

Examination, classification, application of anatomical considerations, and clinical procedure in full and partial denture construction.

Prosthetics 261-Prosthetic clinic. Junior year.

Clinical construction of full and partial dentures.

Prosthetics 263—Prosthetic clinic. Senior year.

Clinical construction of full and partial dentures.

Prosthetics 264—Prosthetic lectures. Senior year.

A series of lectures by outstanding local practitioners in the prosthetic field on clinical considerations in partial denture diagnosis, design, and construction.

Prosthetics 265—Surgical prosthesis. Senior year.

Lectures and technical procedures in maxillofacial and surgical prosthesis.

PSYCHIATRY

Psychiatry 150—Psychiatry for the dentist. Sophomore year.

Lectures on mental hygiene and general principles involved in the field of psychiatry. The development and organization of the personality. The effects of emotional problems, in the development of psychological symptoms, and psychosomatic disorders. General considerations in psychotherapy.

PUBLIC HEALTH

Public Health 222—Principles of public health. Senior year.

Survey course in the theory and practice of preventive medicine, dentistry, and public health. Fundamental principles of administration, statistics, epidemiology, industrial hygiene, and sanitation. The principles and problems of dental public health practice are emphasized.

RADIOLOGY

Radiology 267—Oral radiology practice. Junior year.

Lectures, readings, and discussions on topics relative to oral radiology. Practice in exposing, processing, and mounting dental radiographs.

SURGERY

Surgery 168—Principles of surgery. Sophomore year.

Lectures, seminars, and basic principles of general surgery.

Surgery 270A—Oral surgery. Sophomore year.

Lectures and seminars on local anesthesia and removal of teeth.

Surgery 270B—Oral surgery. Junior year.

Demonstrations, lectures, and clinical practice in local anesthesia and the removal of teeth.

Surgery 272—Oral surgery. Senior year.

Lectures and conferences on oral and maxillofacial surgery and general anethesia.

Clinical practice in local anethesia and the removal of teeth. Clinical demonstrations in the diagnosis and operative procedures in the treatment of diseases, injuries, and malformation about the face, jaws, and oral cavity.

Surgery 274—Oral surgery seminar. Senior year. Required.

Lectures and seminars in diagnosis and treatment-planning in the field of oral surgery. Case presentation.

THEORY AND PRACTICE OF DENTISTRY

Theory and Practice 281—Dental ethics, jurisprudence, and practice management. Senior year.

Lecture and conference course on dental ethics, jurisprudence, economics, office conduct, and practice management.

Theory and Practice 283—Dental history. Senior year.

Lecture and conference course. The development of the scientific principles of modern dentistry is discussed.

Theory and Practice 285—Comprehensive case. Senior year.

Each student is assigned a case for which he performs all the dental services: taking of X-ray negatives, treatment-planning, surgery, and reparative and restorative procedures. The services are carried out in the various clinical divisions, where grades are entered for the student toward the fulfillment of his clinical requirements. The oral examination accompanying the inspection of the completed case aims to correlate the teaching of the entire course.

Theory and Practice 286—Therapeutics. Sophomore year.

Lectures and conferences on drugs and other therapeutic agents used in dentistry. Formerly *Pharmacology* 250.

Theory and Practice 287—Dental history. Freshman year.

Lecture and conference course. The development of the scientific principles of modern dentistry is discussed.

TEXTBOOKS

The following list includes most of the books normally used. As a rule, only the latest editions of the textbooks should be purchased. Students are warned against buying any books until specifically advised by the departments concerned.

Anatomy. Gross anatomy: One of the following three: Stedman, Gould, Dorland, or American, Medical Dictionary; Cunningham, Manual of Practical Anatomy, Vols. II and III; mimeographed Dissecting Directions; one of the following four: Grant, Atlas of Anatomy; Truex and Kellner, Detailed Atlas of the Head and Neck; Spalteholz, Hand Atlas of Human Anatomy; or Anson, Atlas of Human Anatomy.

APPLIED ANATOMY: Shapiro, Applied Anatomy of the Head and Neck (2d ed.).

EMBRYOLOGY: One of the following three: Arey, Developmental Anatomy; Hamilton, Human Embryology; or Patten, Human Embryology.

MICROSCOPIC ANATOMY: Bailey, Textbook of Histology (12th ed.); mimeographed laboratory manual.

NEUROANATOMY: Strong and Elywn, Human Neuroanatomy; mimeographed laboratory manual.

oral Histology and Embryology: Orban, Oral Histology and Embryology; Diamond, Dental Anatomy.

- BIOCHEMISTRY: Harrow, Textbook of Biochemistry (5th ed.); Karshan, Laboratory Manual of Biochemistry for Dental Students.
- Dental Ethics and Practice Management: McGehee and Walker, Dental Practice Management.
- Dental Therapeutics: Council on Therapeutics, American Dental Association, Accepted Dental Remedies; McGehee and Green, Pharmacology and Pharmacotherapeutics for Dentists.
- DIAGNOSIS: Ziskin et al., Differential Diagnosis (1st ed.); Ziskin, Pulp Symptomatology (1943 ed.); Thoma, Oral Pathology (3d ed.).
- MEDICINE: Yater, Fundamentals of Internal Medicine (3d rev. ed.).
- MICROBIOLOGY: Jordan and Burrows, Textbook of Bacteriology (15th ed.); Laboratory Manual in Microbiology and Immunology.
- OPERATIVE DENTISTRY: Black, Operative Dentistry, Vols. II and III; Operative Dentistry Syllabus; Grossman, Root Canal Therapy.
- Oral Pathology: Thoma, Oral Pathology (3d ed.); or Kronfeld, Histopathology of the Teeth (3d ed.).
- ORTHODONTICS: Salzman, Principles of Orthodontics.
- Pathology: One of the following four: Boyd, Textbook of Pathology; Karsner, Textbook of Pathology; Moore, Textbook of Pathology; or Anderson's Pathology.

PEDODONTICS: McBride, Juvenile Dentistry (4th ed. or later).

Periodontology: Goldman, Periodontia.

Pharmacology: Goodman and Gilman, Pharmacological Basis of Therapeutics (1951).

Physiology: One of the following six: Wiggens, Physiology in Health and Disease (5th ed.); Fulton, Textbook of Physiology (16th ed.); Starling, Human Physiology (10th ed.); Best and Taylor, Physiological Basis of Medical Practice (1950); Bard, Macleod's Physiology in Modern Physiology (9th ed.); or Houssay, Human Physiology; and Physiology Laboratory Manual.

PROSTHETIC DENTISTRY: Skinner, Science of Dental Materials; Swenson, Complete Dentures; Tylman, Crown and Bridge Prosthesis; United States Government Printing Office, Physical Properties of Dental Materials; Young et al., Syllabus on Complete Dentures.

PSYCHIATRY: Strecker, Fundamentals of Psychiatry (4th ed.).

Radiology: McCall and Wald, Clinical Dental Roentgenology (3d ed.).

Surgery: Berger, Principles and Technique of Oral Surgery; Berger, Principles and Technique of the Removal of Teeth; Parker, Synopsis of Traumatic Injuries of the Face and Jaw.

Surgical Prosthesis: O. E. Beder, Surgical and Maxillofacial Prosthesis (1st ed.).

STUDENT ORGANIZATIONS

REGISTRATION OF STUDENT ORGANIZATIONS

Blanks for the registration of student organizations, other than those for which the responsibility is assumed by a faculty or department of instruction, may be obtained at the room assignment desk in the Office of the Registrar, 315 University Hall.

Such student organizations come under the jurisdiction of the Committee on Student Organizations of the University Council and may be granted the privileges of the use of names in which the name of the University is embodied or suggested and the use of University rooms or grounds for meetings and bulletin boards for announcements, only if they have filed their registration blanks, furnishing the committee with lists of officers and other executive members, statements of purposes, copies of constitutions and bylaws, and information concerning the nature of any affiliation or connection with non-University organizations.

OMICRON KAPPA UPSILON

Epsilon Epsilon chapter of Omicron Kappa Upsilon, national honorary fraternity, was chartered in the School of Dental and Oral Surgery in 1934. The purpose of this organization is to recognize and honor a maximum of 12 per cent of the members of the graduating Senior class, on the basis of scholarship, character, and possession of potential qualities for future professional growth and attainments.

THE WILLIAM JARVIE SOCIETY

The William Jarvie Society for Dental Research is a nonsecret, dental honor society, membership in which is based on scholarship and interest in dental research, and to which Sophomores, Juniors, and Seniors are eligible. The society was organized in the School of Dental and Oral Surgery in 1920 and named after Dr. William Jarvie because of his wide interest in the promotion of dental research. The society aims to promote the spirit of research among the students.

FACILITIES

LIBRARY

The Medical Library occupies part of the three lower floors in the College of Physicians and Surgeons. It provides current literature (both books and journals) for faculty and students, and it aids in research through its own collections of current and historical works and through its unique bibliographic service.

The Library contains approximately one hundred and sixty thousand volumes of books and journals, some five thousand pamphlets, and about two thousand lantern slides on the history of medicine. More than eighteen hundred periodicals are received regularly. A professional library staff is available to aid students, faculty, and research workers in the Schools of Medicine, Dentistry, Nursing, Public Health, and the hospitals of the Medical Center.

The libraries on Morningside Heights, containing more than two million volumes, are open to all students of dentistry. The main collection is housed in Butler Library; special and departmental collections are located in various other buildings on the campus. They

include collections on biology, chemistry, physics, psychology, sociology, and other subjects related to dentistry and supplement the special collections available in the College of Physicians and Surgeons. Books may be borrowed for home use.

Leaflets describing the collections and services of the University Libraries are available in any of the library reading rooms. The Medical Library and all other libraries post

their hours of opening.

UNIVERSITY PRIVILEGES

All students enrolled in the Dental School enjoy the privileges and facilities of the University campus, including access to the University libraries, Gymnasium, and other activities.

University Gymnasium.—The Gymnasium is situated on Morningside Heights and is open daily, except Sundays and holidays. Students of the School of Dental and Oral Surgery may enjoy its privileges and have the use of the Gymnasium, baths, and private lockers. A service fee of \$1.00 per session (Winter, Spring, or Summer) is charged to each student using the facilities of the Gymnasium without formal registration in physical education courses.

STUDENT HEALTH SERVICE

Daily office hours are held by the Student Health Service in Room 2-220 of the Vanderbilt Clinic. In addition, the physician-in-charge of the Health Service is available to attend ill students if they reside in the immediate vicinity of the Medical Center. Students requiring hospitalization will be taken care of either in the wards of the Medical Center under an insurance policy of the Associated Hospital Service of New York or elsewhere under the terms of its policy.

All entering students are required to have a dental examination in the School and to have all necessary dental work completed prior to graduation.

RELIGIOUS LIFE

The life of the University community finds religious expression through St. Paul's Chapel and Earl Hall and through the ministry of the Chaplain and those associated with him in his work. The Chaplain of the University is assisted by three religious counselors: the Counselor to Protestant Students, the Counselor to Roman Catholic students, and the Counselor to Jewish students.

Daily services are held in the Chapel, and students are urged to familiarize themselves with the schedules, which are conveniently posted.

There are a number of student religious organizations to which the Chaplain and counselors serve as advisers and with which students are cordially urged to affiliate themselves.

The Chaplain and the counselors are especially eager to establish warm personal relations with students and to meet them in consultation, at the Chapel or in their offices in Earl Hall.

UNIVERSITY RESIDENCE HALLS

Residence Halls Announcements and application blanks for rooms may be obtained (for men) from the Men's Residence Halls Office, 125 Livingston Hall, Columbia Univer-

sity, New York 27, N.Y., or (for women) from the Johnson Hall Office, 411 West 116th Street, New York 27. The advance reservation deposit is payable upon receipt of room assignment. Checks must be made payable to Columbia University.

KING'S CROWN HOTEL

The King's Crown Hotel, 420 West 116th Street, near the campus, is owned by the University. It provides accommodations at reasonable rates, available for relatives and guests of members of the University community.

INTERNATIONAL HOUSE

International House, while not a University Residence Hall, is primarily a residence for students at Columbia University and other colleges and universities in New York City. It offers comfortable accommodations at reasonable rates. For further information, write to International House, 500 Riverside Drive, New York 27, N.Y.

MEDICAL CENTER BOOKSTORE

The Medical Center Bookstore, located on the second floor of the College of Physicians and Surgeons, is maintained for the convenience of the students and staff of the Medical Center schools and hospitals. The store carries a full stock of textbooks and all other student supplies. Substantial savings are effected whenever the rules of manufacturers and publishers permit. The store is open on weekdays from 8:45 A.M. to 5:30 P.M.; Saturdays, 8:45 A.M. to 1:30 P.M.

FELLOWSHIPS, SCHOLARSHIPS, AND PRIZES

Recipients of University financial aid in excess of tuition, whether in the form of fellowships, scholarships, or other grants, will be asked to reside in the University Residence Halls unless exempted by the appropriate Dean with the approval of the President upon the presentation of adequate reasons for living elsewhere.

Three Ellis Fellowships are awarded annually to qualified graduates of any of the colleges of recognized rank in the state of Vermont. The holders of these fellowships may pursue resident graduate studies under any one of the graduate schools maintained by the University and are eligible for reappointment for no more than two additional years, with the proviso that a holder of the fellowship who is a student in medicine may be eligible for reappointment for no more than three additional years. The annual stipend is \$1,500. Applications should be submitted on or before February 20 on blanks to be filed with the Office of University Admissions.

See also "Graduate Courses in the Basic Sciences" on page 14.

The Van Woert Scholarship Fund was established by the alumni of the School of Dental and Oral Surgery in 1940. The award is given annually to a Senior student in the dental school who stands high in scholastic attainments, in personal character, and in potentiality of being a credit to Columbia University and the dental profession.

A prize known as the Ella Maria Ewell Medal is awarded annually to the student

of the School of Dental and Oral Surgery who, in the judgment of the Faculty, is most proficient in some subject of dentistry.

The Alumni Association makes an annual award of the Rowe-Wiberg Medal to the Senior student who has shown the greatest proficiency in prosthetic dentistry.

An annual award is made by the Sigma Epsilon Delta Fraternity to the graduating student who, in the opinion of the Faculty, shows the greatest promise.

The staff of the Division of Operative Dentistry has established an annual prize for excellence in operative dentistry.

STUDENT LOANS

Loan funds are provided in a limited amount for the assistance of students, but it is the general policy to grant loans only to students who have satisfactorily completed at least one session of residence at the University. Application is made on a blank which may be obtained from the Office of the Bursar, 310 University Hall. Applications for loans for the Winter Session should be filed by September 15; for the Spring Session, by January 15.

STUDENT EMPLOYMENT

Owing to the heavy schedule of the Dental School, it is difficult for dental students to undertake outside part-time work during the academic year and, so far as practical, other financial arrangements should be made.

OFFICERS OF INSTRUCTION

HAROLD ALEXANDER ABRAMSON Assistant Clinical Professor of Physiology A.B., Columbia, 1920; M.D., 1923
THOMAS HUNTER ALLEN
FRANZ ALTMANN Associate Clinical Professor of Otolaryngology M.D., Vienna, 1925
VIRGINIA APGAR
EDMUND APPLEBAUM
HOWARD ARDEN
HERBERT D. AYERS, JR Assistant Clinical Professor of Dentistry A.B., Columbia, 1929; D.D.S., Columbia, 1931
MARGARET W. BARNARD Associate Professor of Public Health Practice A.B., Smith, 1917; M.D., Cornell, 1923; D.P.H., Johns Hopkins, 1935
HENRY ARTHUR BARTELS
OSCAR E. BEDER
FRANK E. BEUBE
HAROLD W. BROWN
JACK BUDOWSKY
THEODORE BUNDRANT Assistant Clinical Professor of Dentistry D.D.S., Howard, 1929
Lester Richard Cahn
EDWARD A. CAIN, JR
LOUIS J. CIZEK
E. Gurney Clark
HANS THACHER CLARKE

D.D.S., Pennsylvania, 1928

ROBERT W. COON
WILFRED MONROE COPENHAVER
Joseph Anthony Cuttita
SAMUEL RANDALL DETWILER
Adolph Elwyn
EARL THERON ENGLE
JOHN WILLIAM FERTIG
MORRIS FIERSTEIN
JOSEPH E. FLYNN
Lewis Fox
HARRY ALLEN GALTON
Alfred Gilman
LEONARD J. GOLDWATER
JOHN E. GORRELL Associate Professor of Hospital Administration B.S., Chicago, 1926; M.B., Northwestern, 1929; M.D., 1930
ROBERT GOTTSEGEN
MAGNUS INGSTRUP GREGERSEN Dalton Professor of Physiology A.B., Stanford, 1923; A.M., 1924; Ph.D., Harvard, 1930
ROBERT E. HERLANDS
MAURICE J. HICKEY Associate Dean (Dental and Oral Surgery); Professor of Oral Surgery D.M.D., Harvard, 1932; M.D., Columbia, 1937
GEORGE W. HINDELS

SCHOOL OF DENTAL AND ORAL SURGERY 31
LEONARD HIRSCHFELD
HOUGHTON HOLLIDAY
IRVIN LELAND HUNT, JR
ALVIN R. JACOBSON
ELVIN A. KABAT
MAXWELL KARSHAN
BARNET M. LEVY
Nolan Don Carpentier Lewis
GEORGE FRANK LINDIG
JOHN J. LUCCA
EWING CLEVELAND McBeath
CLARE K. MADDEN
WILLIAM J. MILLER Assistant Clinical Professor of Dentistry A.B., New York University, 1940; D.D.S., Columbia, 1943
SAUL MISHELOFF
WILLIAM LEO NASTUK
ALVIN S. NATHAN
JOHN LESTER NICKERSON
CARL REUBEN OMAN
ARMAND OPPENHEIMER
DOUGLAS BURNETT PARKER
MAX A. PLEASURE

WILLARD COLE RAPPLEYE
A.B., Illinois, 1915; M.D., Harvard, 1918; A.M. (hon.), Yale, 1922; Sc.D., Trinity (Conn.), 1939; Rutgers, 1949; Med.Sc.D., Women's Medical College of Pennsylvania, 1950
WILLIAM MITCHELL ROGERS
Walter Stanton Root
HARRY M. Rose John E. Borne Professor of Medical and Surgical Research
A.B., Yale, 1928; M.D., Cornell, 1932
Solomon Nathan Rosenstein
WILLIAM J. SAVOY
SAUL SCHLUGER
JOSEPH SCHROFF
Beatrice C. Seegal
JOSEPH SERONDE
HARRY H. SHAPIRO
HAROLD SHERMAN
MAURICE E. SHILS
WILLIAM H. SILVERSTEIN Assistant Clinical Professor of Dentistry D.D.S., Maryland, 1937
GEORGE K. SMELSER
GILBERT PERCIVAL SMITH
HARRY PRATT SMITH
Leo Stern, Sr
WELLINGTON B. STEWART
FRANCES A. STOLL

53
LEWIS RIDDELL STOWE
DAVID TANCHESTER
WILLIAM A. THEMANN Assistant Clinical Professor of Dentistry D.D.S., Columbia, 1927
ARTHUR CRANSTON TOTTEN
HARRY BENJAMIN VAN DYKE
WILLIAM WELCH WALCOTT
Shih-Chun Wang
EVELYN WITOL
EDWARD VICTOR ZEGARELLI
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HERBERT BARTELSTONE, D.D.S
CARLISLE C. BASTIAN, D.D.S
JAMES WINSTON BENFIELD, D.D.S
DOROTHY R. BLITSTEN, Ph.B Lecturer in Dental Hygiene
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SEBASTIAN A. BRUNO, D.M.D
STANISLAW H. BRZUSTOWICZ, D.D.S
NEAL W. CHILTON, D.D.S., M.P.H Research Associate in Dentistry
ADA R. CLARK, Ph.D
GEORGE B. CROZAT, D.D.S
¹ KOURKEN A. DAGLIAN, D.D.S
Kenneth C. Deesen, D.D.S
ROBERT CYRIL DEVINE, D.D.S
JOHN J. DOLCE, D.D.S

¹ On leave 1952-1953 (military service).

ROBERT DRELICH, D.D.S
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Solon A. Ellison, D.D.S
Joseph E. Fiasconaro, D.D.S
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HERBERT PHILIP FRITZ, D.D.S
HERMAN GLADSTONE, M.D
BENJAMIN WILLIAM GLICK, M.D Instructor in Anatomy
Paul Goldhaber, D.D.S
¹ ROBERT J. GORLIN, D.D.S
Rosalie Greco, B.S
Axel Hanson
STANLEY S. HELLER, D.D.S
JOHN D. HOGAN, D.D.S
SIDNEY L. HOROWITZ, D.D.S
ELLEN N. Hosiosky, D.M.D., D.D.S Instructor in Dentistry
JAMES JAY, D.D.S
Joseph E. Johnson, D.D.S Lecturer in Dentistry
SOLOMON L. KATZ, D.D.S
Morris Kavelle, D.D.S
Bertram Klatskin, D.D.S
Austin H. Kutscher, D.D.S
STANLEY L. LANE, M.D., D.D.S
Joseph M. Leavitt, D.D.S
Henry P. Levy, D.D.S
EVALD LINDER
JULIUS K. LITTMAN, M.D
Francis J. Loughlin, D.D.S
Joseph Luban, D.D.S
Edward S. Luboja, D.D.S
HARRIET G. McCormick, Ph.D Lecturer in Dental Hygiene
Edith I. Maguire, R.D.H Lecturer in Dental Hygiene
IRWIN D. MANDEL, D.D.S
¹ On leave 1952–1953 (military service).

ARTHUR H. MERRITT, D.D.S., Sc.D Lecturer in Dentistry
Henry Milch, M.D
WILLIAM MILLER, D.D.S
George Minervini, D.D.S
MELVIN L. MORRIS, D.D.S
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¹ STANLEY F. NIEF, D.D.S
RUTH M. PIERSTORFF, M.A Lecturer in Dental Hygiene
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Arnold C. Rosenberg, D.D.S
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FERDINAND A. TUOTI, D.M.D
¹ Ennio L. Uccellani, D.D.S
D. VINCENT VARALLO, D.D.S
WILLIAM A. VERLIN, D.D.S
CLIFFORD L. WHITMAN, D.D.S
FREDERICK F. YONKMAN, Ph.D., M.D Lecturer in Pharmacology
² LENARD ZUCKERMAN, D.M.D

¹ On leave 1952–1953 (military service). ² On leave 1952–1953.

CLINICAL ASSISTANTS

AARON L. ACKERMAN, D.D.S., M.P.H. JEROME BARTWINK, D.M.D. MARC L. BERG, D.D.S. DANIEL BLATMAN, D.D.S. HYMAN A. CITRON, D.D.S. DAVID A. DRAGIFF, D.D.S. MERVIN EISENBERG, D.D.S. ¹JESSE W. FIELD, D.D.S. RICHARD C. FOWLER, D.D.S. IDA M. GOLOMB, D.D.S. SALVATORE GULLI, D.D.S. EDWARD HEIDT, D.D.S. LAWRENCE HEIMAN, D.D.S. ISRAEL HYMAN, D.D.S. HEDDA M. JOHN, D.D.S. FRANK KANTER, D.D.S. JACOB I. KAPLAN, D.D.S. JOHN A. KORNIEWICZ, D.D.S.

¹Robert G. Kroll, D.D.S. PHILIP KUTNER, D.D.S. SEYMOUR LEVINE, D.D.S. ¹IRWIN LIGHTERMAN, D.D.S. ¹Louis Mandel, D.D.S. JOSEPH J. MARTINI, D.D.S. HOWARD B. MOSHMAN, D.D.S. HENRY I. NAHOUM, D.D.S. JOHN D. PIRO, D.D.S. SYDNEY C. RAPPAPORT, D.D.S. NATHANIEL RATTNER, D.D.S. GEORGE SCHWENDENER, D.D.S. ¹Morton L. Shapiro, D.D.S. WALTER G. SPENGEMAN, D.D.S. Julius Tarshis, D.D.S. EDWARD E. TELTSCH, D.D.S. SEYMOUR ZEFF, D.D.S. DAVID ZEISLER, D.D.S.

PRESBYTERIAN HOSPITAL DENTAL SERVICE

LEWIS R. STOWE, Director

Attending Dental Surgeons

Houghton Holliday Carl R. Oman Joseph Schroff Gilbert P. Smith

ARTHUR C. TOTTEN

Associate Attending Dental Surgeons

LESTER R. CAHN
IRVIN L. HUNT, JR.
BARNET M. LEVY

ALVIN S. NATHAN
SOLOMON N. ROSENSTEIN
WILLIAM J. SAVOY

EDWARD V. ZEGARELLI

Assistant Attending Dental Surgeons

Oscar E. Beder Frank E. Beube Jack Budowsky Edward A. Cain Boaz Shattan

Adolph Berger, Consultant

ALBIN R. SEIDEL, Consultant

PRESBYTERIAN HOSPITAL ORAL SURGERY SERVICE

MAURICE J. HICKEY, D.M.D., M.D., Assistant Attending Surgeon Stanley L. Lane, M.D., D.D.S., Assistant Attending Surgeon

¹ On leave 1952-1953 (military service).

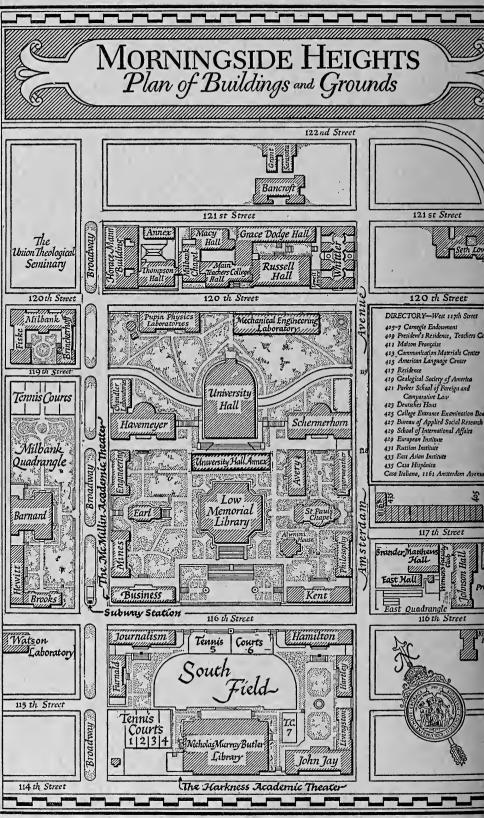






- 1. Babies Hospital
- Presbyterian Hospital Sloane Hospital New York Orthopaedic Hospital
- 3. Harkness Pavilion
- 4. Power plant
- 5. College of Physicians and Surgeons
- 6. Vanderbilt Clinic
 - School of Dental and Oral Surgery
- Washington Heights Health and Teaching Center, New York City Department of Health
 - School of Public Health

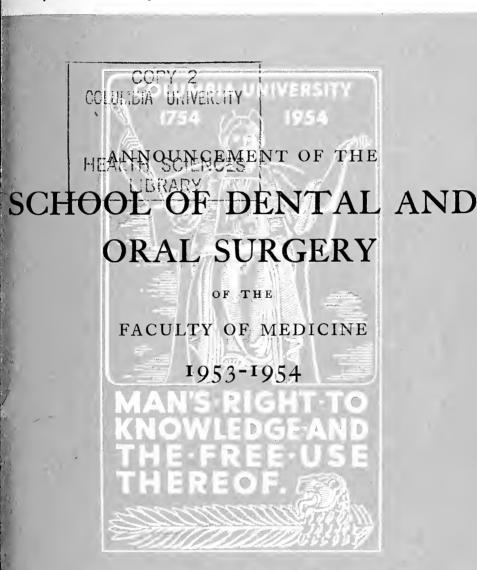
- 8. Institute of Ophthalmology
- 9. Maxwell Hall
- 10. Neurological Institute
- New York State Psychiatric Institute and Hospital
- 12. Bard Hall
- 13, 16. Storage
- 14. Shops
- 15. Housing
- 17. Francis Delafield Hospital, New York City
 Department of Hospitals
- 18. Edward S. Harkness Memorial Hall



COLUMBIA UNIVERSITY BULLETIN OF INFORMATION

Fifty-third Series, No. 23

June 20, 1953



1754 — THE BICENTENNIAL YEAR — 1954

COLUMBIA-PRESBYTERIAN MEDICAL CENTER 630 WEST 168TH STREET · NEW YORK 32, N.Y.

Columbia University Bulletin of Information

Fifty-third Series, No. 23

June 20, 1953

Issued at Columbia University, Morningside Heights, New York 27, N.Y. weekly from January for forty-six consecutive issues. Reentered as second-class matter August 15, 1952, at the Post Office at New York, N.Y., under the Act of August 24, 1912. Acceptance for mailing at a special rate of postage provided for in Section 1103, Act of October 3, 1917, authorized.

The series includes the Report of the President to the Trustees and the Announcements of the several Colleges and Schools relating to the work of the next year. These are made as accurate as possible, but the right is reserved to make changes in detail as circumstances require. The current number of any of these Announcements will be sent upon written application to the Office of University Admissions, 322 University Hall, Columbia University, New York 27, N. Y. Copies may be obtained in person from the Office of the Secretary, 213 Low Memorial Library.

C. U. P. 6,000—1953

Communications

All communications regarding the School of Dental and Oral Surgery, applications for admission, and appointments for personal interviews should be addressed to the School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N.Y.; telephone: Wadsworth 3–2500.

Announcements

The Announcements of each College or School and of the Summer Session may be obtained without charge by writing to the Office of University Admissions.

Letters requesting more detailed information than is contained in this Announcement and all correspondence regarding admission should be addressed to the Dean, School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N.Y.

PRINTED FOR THE UNIVERSITY BY COLUMBIA UNIVERSITY PRESS

CONDENSED ACADEMIC CALENDAR

1953

September 10	Thursday, through September 12, Saturday. Registration, including payment of fees.
September 14	Monday. Classes begin.

November 3 Tuesday. Election Day. Holiday.

November 26 Thursday, Thanksgiving Day, Holiday,

November 28 Saturday. End of first trimester.

November 30 Monday. Beginning of second trimester.

December 21 Monday, through

1954

January 3 Sunday. Christmas Holidays.

February 12 Friday. Lincoln's Birthday. Not a University Holiday.

22 February Monday. Washington's Birthday. Holiday.

27 February Saturday. End of second trimester.

March 1 Monday. Beginning of third trimester.

Last day for filing application or renewal of application for all degrees and certificates, except doctoral degrees, to be conferred in June. The privilege of later application may be granted on payment of a late fee.

April 11 Sunday, through April 18, Sunday. Easter Holidays.

22 May Saturday. Last day of classes.

May 24 Monday, through May 28, Friday. Final examinations.

31 Monday. Memorial Day. Holiday. May

1 Tuesday. Conferring of degrees. June



CONDENSED ACADEMIC CALENDAR

7 1. day -1953 8 00 6 1/2)

September 10 Thursday, through September 12, Saturday. Registration, including payment of fees.

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1954

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Monday. Beginning of third trimester.

Last day for filing application or renewal of application for all degrees and certificates, except doctoral degrees, to be conferred in June. The privilege of later application may be granted on payment of a late fee.

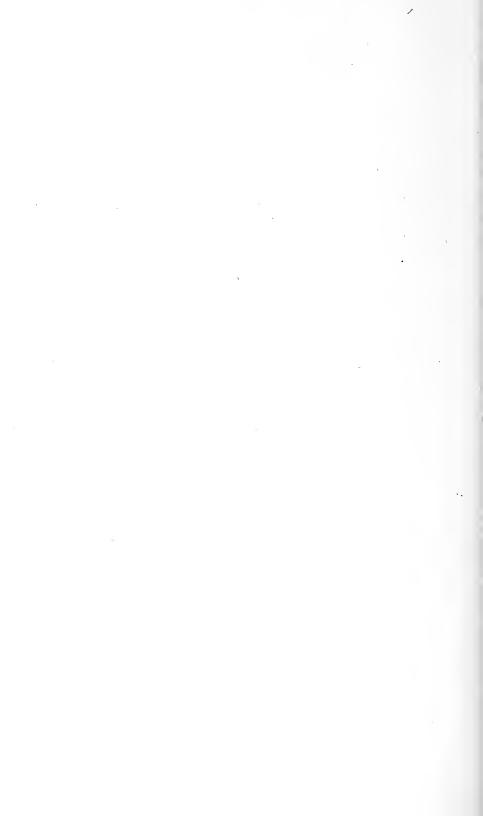
April 14 Sunday, through April 18, Sunday. Easter Holidays.

May 22 Saturday. Last day of classes.

May 24 Monday, through May 28, Friday. Final examinations.

May 31 Monday. Memorial Day. Holiday.

June 1 Tuesday. Conferring of degrees.



FACULTY OF MEDICINE

OFFICERS OF THE FACULTY

GRAYSON KIRK, PH.D., LL.D President of the University
JOHN A. KROUT, Ph.D., L.H.D., LL.D Vice President and Provost of the University
WILLARD COLE RAPPLEYE, M.D., A.M., Sc.D., MED. Sc.D. Vice President in Charge of
Medical Affairs; Dean of the Faculty of Medicine
MAURICE J. HICKEY, D.M.D., M.D Associate Dean (Dental and Oral Surgery)
Aura E. Severinghaus, Ph.D Associate Dean (Medicine); Secretary
of the Faculty of Medicine
HAROLD W. BROWN, Sc.D., M.D., D.P.H Associate Dean (Public Health)
IAMES E. McCormack, M.D. Associate Dean (Graduate Studies)

THE FACULTY

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Nolan D. C. Lewis ROBERT F. LOEB JAMES E. McCORMACK RUSTIN McIntosh MONROE A. McIver IRVILLE H. MACKINNON ROLLO J. MASSELINK H. Houston Merritt FREDERICK A. METTLER EDGAR G. MILLER, JR. CARL T. NELSON IOHN L. NICKERSON EMANUEL M. PAPPER GEORGE A. PERERA J. LAWRENCE POOL WILLARD C. RAPPLEYE DICKINSON W. RICHARDS, IR. WALTER S. ROOT HARRY M. ROSE RUDOLPH N. SCHULLINGER BEATRICE C. SEEGAL DAVID SEEGAL AURA E. SEVERINGHAUS LAWRENCE W. SLOAN ALAN DE FOREST SMITH GILBERT P. SMITH HARRY P. SMITH LEWIS R. STOWE HOWARD C. TAYLOR KENNETH B. TURNER HARRY B. VAN DYKE CARMINE T. VICALE THEODORE J. C. VON STORCH JEROME P. WEBSTER ABNER WOLF

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MAURICE J. HICKEY, Chairman

SAMUEL R. DETWILER

MAGNUS I. GREGERSEN

HARRY P. SMITH

HOUGHTON HOLLIDAY

MAXWELL KARSHAN

BARNET M. LEVY

CARL R. OMAN

JOSEPH SCHROFF

GILBERT P. SMITH

LEWIS R. STOWE

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HARRY B. VAN DYKE

SOLOMON N. ROSENSTEIN AURA E. SEVERINGHAUS, ex officio

ADMINISTRATIVE STAFF AT SCHOOL OF DENTAL AND ORAL SURGERY

THE SCHOOL OF DENTAL AND ORAL SURGERY

Columbia University was founded in 1754 as King's College by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The Revolutionary War interrupted its active work, but in 1784 it was reopened as Columbia College. In 1912 the title was changed to Columbia University in the City of New York.

From its inception, the program of dental education at Columbia University has been fostered by and associated with the University's School of Medicine. The Faculty of Medicine at its stated meetings of November and December, 1915, recommended to the Trustees that a dental school be established in the University on "University Lines."

The President of the University in his annual report of 1916 informed the Trustees that "during the year a group of men have come forward with a well-supported proposal that there be established in connection with the Medical School, a school for the training of dental surgeons." The President also reported that "the project was carefully formulated and presented to the Medical Faculty and received the formal approval of that Faculty and later of the Trustees."

In May, 1916, the University issued a pamphlet entitled A Dental School on University Lines. In this pamphlet the University stated its intent to establish a school of dentistry in affiliation and coordination with the School of Medicine. The pamphlet's introductory statement outlined the University's policy for dental education which has been consistently followed:

"Dentistry and Dental Education are on the threshold of extraordinary development but are unable to take advantage of their opportunities because of the traditional separation of dentistry and medicine. Dentistry has been shown by recent investigation and research to be logically a branch of general medicine."

In the fall of 1917 James N. Jarvie gave a substantial sum to a fund "to found and maintain the proposed dental school of the University, described in the pamphlet entitled *A Dental School on University Lines* issued by Columbia University, May 1916."

In September, 1916, students in dentistry were admitted to courses in Columbia University at the School of Medicine. On March 5, 1917, the Trustees of the University established a school of dentistry as of September 27, 1916, and from that date the School became an integral part of the University. On March 1, 1920, the dental building adjacent to the School of Medicine and Vanderbilt Clinic was finished and assigned to the use of this School.

On July 1, 1923, the College of Dental and Oral Surgery of New York (organized in 1905) was merged with the School of Dentistry, and the combined institutions named the School of Dental and Oral Surgery of Columbia University. By this merger Columbia acquired two large buildings, at 302–306 East 35th Street and 309–315 East 34th Street, in which the School was housed up to the time of moving into the Medical Center.

The merging of the schools did not alter the University's policy for dental education. In the 1923–1924 Announcement of the School of Dental and Oral Surgery this policy was reaffirmed by the statement, "It is the purpose of the School of Dental and Oral Surgery to combine in the highest degree practicable a sound knowledge of the fundamentals of medicine with adequate training in the technical procedures of dental science and arts."

In September, 1928, the School was moved to the Columbia University-Presbyterian

Hospital Medical Center. The dental department of the School occupies three floors, a net area of forty thousand square feet. The fundamental science subjects, which are given to both dental and medical students, are taught in the adjoining College of Physicians and Surgeons, the corridors of the two schools being continuous. In adjacent wings, the halls of which are also continuous with those of the School, the wards and outpatient departments of the Presbyterian and associated hospitals are located, thus giving the closest possible contact and association with all branches of health service. The Dental School clinic includes as one of its functions the dental care of the patients of the Medical Center hospitals.

In order to strengthen the instruction of dental and medical students and to fulfill a further step in the integration of dental education and research with the medical program at the Columbia-Presbyterian Medical Center which was visualized when the Dental School was made a part of the Center in 1928, the Faculties of the two schools were merged July 1, 1945. This Faculty is responsible for the educational programs in medicine, dentistry, public health, and nursing. A committee on dental education, established by University statute, of which a majority is from the Department of Dental and Oral Surgery and of which the Associate Dean for Dental and Oral Surgery is the chairman, initiates recommendations to the Faculty on the qualifications and admission requirements for dental students, the curriculum of instruction, the candidates for the degree of Doctor of Dental Surgery, and other educational matters dealing with dentistry.

The course in dentistry covers four academic years and leads to the degree of Doctor of Dental Surgery. The greater part of the first two years of the curriculum is taken in the fundamental science departments of instruction in the University, which are integral parts of the College of Physicians and Surgeons and the School of Dental and Oral

Surgery.

REQUIREMENTS FOR ADMISSION, PROMOTION AND GRADUATION

ADMISSION TO FIRST YEAR OF THE SCHOOL OF DENTAL AND ORAL SURGERY

Application.—It is desirable that candidates make application during the academic year preceding that for which they seek admission. It is not necessary to complete the academic requirements before making application. However, all requirements must be completed before matriculation. Application blanks will be furnished by the Office of the Committee on Admissions of the School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N.Y. Every application should be accompanied by a check or money order for five dollars, payable to Columbia University, to cover the cost of processing the application. This fee is not returnable.

The minimum requirement for admission to the first-year class is the satisfactory completion of three full years at an acceptable college of arts and sciences, which must include the satisfactory completion of the following courses required by the New York

State Board of Regents:

	Semester Hours
English composition and literature	6
Physics	6
Biology	6
Chemistry (including an approved course in organic	
chemistry)	12

A point or semester hour is the equivalent of one hour of lecture or recitation plus two hours of outside work or three hours of laboratory work per week, per semester. Suitable laboratory work must be included in each of the courses in science.

Inasmuch as an understanding of the biological sciences is based upon the knowledge of the underlying sciences of chemistry, physics, and biology, students are urged, so far as time permits, to take additional courses in quantitative, qualitative, physical, and organic chemistry, physics, comparative anatomy and other advanced courses in biology, as well as courses in mathematics, German and French, sociology, history, and other subjects of general cultural and scientific value. Courses in fine and industrial arts are also useful.

Owing to the limited number of students who can be accommodated, completion of the requirements for entrance does not guarantee admission. The entire college record of each student is carefully examined by the Committee on Admissions in order that those who are judged most capable of meeting the exacting demands of the course and of the profession of dentistry may be selected. Preference will be given in the selection of students to those who present to the Committee on Admissions evidence of high achievement in selected college courses of special predental value and who, in the opinion of the Committee on Admissions, are most likely to succeed in dentistry, rather than to those who present the largest number of course credits or those who have limited their preparation to the prescribed subjects. Acceptance of a student for admission is based on grounds of character and health as well as on the fulfillment of academic requirements.

An acceptance fee of \$50 is payable within ten days after notification of acceptance

(see page 9).

All applicants will be required to take the Dental Aptitude Tests conducted by the Council on Dental Education at various testing centers throughout the United States and Canada. For further information apply directly to the Division of Aptitude Testing, Council on Dental Education of the American Dental Association, 222 East Superior Street, Chicago 11, Illinois.

COMBINED COURSES

Combined Courses with Columbia College.—Upon receiving ninety-four points credit, sixty-four of which must be for work in Columbia College, including all the work prescribed for the degree of Bachelor of Arts in Columbia College, a student may take studies in the first year of the School of Dental and Oral Surgery, provided he can satisfy the stated requirements and is accepted for admission therein, and will receive the degree of Bachelor of Arts from Columbia College upon the satisfactory completion of the year's work. No course may be counted toward a professional degree and at the same time be included among those which go to make up the ninety-four points referred to above.

Combined Courses with Barnard College.—Students from Barnard College may exercise the professional option after the completion of ninety points of academic work, including all grouped work and a major of twenty-eight points unless this number is reduced in individual cases by special permission of the Committee on Instruction of Barnard College.

Combined Courses with the School of General Studies.—Students from the School of General Studies may exercise the professional option after the completion of ninety-four points, including all the courses prescribed for the Bachelor of Science degree, not less than sixty-four of which have been received for work in Columbia University.

Combined Courses in Dentistry and Medicine.—It is usually possible for a graduate of a registered medical school with the degree of Doctor of Medicine to meet the requirements of the School and receive the degree of Doctor of Dental Surgery by the satisfactory completion of a special two-year course, which may include one Summer Session.

ADMISSION OF FOREIGN STUDENTS

The State Department of Education has special requirements with which students who are not citizens of this country must comply. Any foreign student desiring to apply to the School of Dental and Oral Surgery should communicate with the Dean.

REGISTRATION

Before attending University courses, every student must present himself at the office of the Registrar and file a registration blank giving such information as may be required. The periods set aside for registration in each session are stated in the Academic Calendar at the beginning of this Announcement. Registration at a later date is permitted only with the written permission of the Dean, satisfactory cause for the delay having been shown.

FEES

The University Statutes provide that tuition fees and the University fee are payable semiannually in advance. No reduction is made for late registration. Registration will not be complete until such fees are paid. Checks should be drawn to the order of Columbia University and presented in person or mailed to the office of the Bursar. Payment of fees after the last day of registration (see the Academic Calendar) imposes automatically the statutory charge of \$3.00 for the privilege. Under the regulations, the privileges of the University are not available to any student until he has completed his registration.

The fees to be paid by students are subject to change at any time at the discretion of

the Trustees.

The following annual fees are prescribed for dental students:

a) University Fee

 For each Winter or Spring Session or any part thereof, for students enrolled for:

One to four points, inclusive \$ 5.00
More than four points to nine points, inclusive 10.00
More than nine points 20.00
2. For each Summer Session or any part thereof 7.00

3. For registration as engaged in research only for any period not longer than a Winter or a Spring Session.

20.00

b) Tuition Fee

For the course in dentistry for one academic year (or equivalent) in the case of a student enrolled for the full course, payable in two installments

825.00

For students not enrolled for the full course, fees are to be assessed by the Registrar as provided by the University Statutes.

c) Fee for Application

For a degree 20.00

d) Privileges

1. Late registration or late application for a degree or for deficiency or special examinations

examinations 3.00
2. Deficiency or special examinations 3.00
3. Renewal of application for any degree 1.00

e) Student Health Service Fee

This fee will be used to pay the annual premium of the Associated Hospital Service of New York for hospital insurance and to pay part of the cost of the student health service.

For all students, per academic year

\$25.00

f) Case Rental

For Sophomores, Juniors, and Seniors, rental for one instrument case, for one academic year, payable in two installments

5.00

g) Rebates

 The University fee and the fee for application for any degree shall not be subject to rebate.

2. No tuition fee shall be returned for any course which the student may for any reason discontinue. Exception to this rule may be made only in cases of total withdrawal from the University, when a partial return of fees may be authorized by the Registrar.

When a rebate is allowed for the discontinuance of courses or withdrawal from the University, such rebate will be reckoned from the day upon which the Registrar receives notice from the student.

h) Undue Breakage

While no deposit is required of students to cover laboratory material and ordinary breakage, any unusual amount of breakage will be charged.

Acceptance Fee.—Within ten days after an applicant has been notified that his application has been accepted, he must notify the Dean that he intends to matriculate and accompany his communication with a check or money order for \$50, payable to Columbia University. This acceptance fee will belong to the University and if the applicant does not register at the School for the specific session, it will not be returned. If he registers at the School at the next enrollment of entering students, the amount of the acceptance fee will be deducted from his tuition fees for that session.

Fee for Processing of Application.—A fee of \$5.00 is charged to every student who applies for admission to the School of Dental and Oral Surgery or the School of Medicine. This fee covers the cost of processing the application.

Fees for Repeated Courses.—Students obliged to repeat the work for any year are required to pay the full tuition fee.

DENTAL EQUIPMENT

Instruments and Supplies.—Each student is required to supply himself with instruments as specified in the official instrument list. The purchase from the University of instruments in original package outfits has been made compulsory, and unauthorized or incomplete equipment will not be accepted by the instructors. All technique material and regular supplies must be purchased from the University upon order from the instructor. The students will not be allowed to purchase more than is required to complete a case. The quantity and quality are selected with a view to the best possible results and conservation of the student's best interests.

Microscopes.—All students entering the School of Dental and Oral Surgery are required to provide themselves with microscopes of a satisfactory type. A microscope of standard make fitted with the following attachments will fill the requirements:

- a. Triple nosepiece.
- b. Abbe or variable focus condenser.
- c. 10x and 6x oculars.
- d. 16 mm. and 4 mm. objectives.
- e. Oil immersion lens.

Lockers.—Each student will be assigned a locker on entering and will be required to use a combination lock as prescribed by the School.

ESTIMATED EXPENSES

Following is an itemized estimate of the average expenses of a full-time student for an academic year in the School of Dental and Oral Surgery exclusive of travel, clothing, amusements, charity, organizations, and sundries. These items are, of course, variable but should not be overlooked in estimating the total expense. The tuition, room, board, books, and laundry figures are based upon the rates which prevailed during 1951–1952 and can be accepted as applicable in general for the year 1953–1954 unless national economic changes require their alteration.

Average Minimum \$ 865 \$ 865 Tuition and University fees Miscellaneous fees 35 35 Room 186 330 Board 600 500 Books 150 115 Instruments (see below) 350 350 Laundry 75 35 \$2,086 \$2,405

These estimates are subject to correction as the basic prices of supplies and instruments change. Instruments are to be paid for at the opening of the academic year. The cost of books will vary, depending upon the choice made from the selection offered.

STUDENTS

Each person whose registration has been completed will be considered a student of the University during the session for which he is registered unless his connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the specific authorization of the dean or director of the school or college of the University in which he is registered.

Students prevented by conscientious scruples from complying with academic requirements which may be fulfilled only upon days set apart by their church for religious observance should make application to the Dean for an equitable solution.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University, which is free to cancel his registration at any time on any grounds which it deems advisable. The disciplinary authority of the University is vested in the President in such cases as he deems

proper, and, subject to the reserved power of the President, in the dean of each faculty and the director of the work of each administrative board.

WITHDRAWAL

An honorable discharge will always be granted to any student in good academic standing and not subject to discipline who may desire to withdraw from the University; but no student under the age of twenty-one years shall be entitled to a discharge without the assent of his parent or guardian furnished in writing to the proper dean. Students withdrawing must notify the Registrar immediately.

The Dean of the School may, for reasons of weight, grant a leave of absence to a stu-

dent in good standing.

REQUIREMENTS FOR PROMOTION

1. A student may be admitted to the second, third, or fourth year of the dental curriculum only upon the recommendation of the class officers of instruction under whom he has studied during the preceding year.

2. The School of Dental and Oral Surgery reserves the right to refuse readmission or promotion to any student who is believed for any reason to be unsuited to the conditions

of study in the school.

Students are classified for readmission or promotion under the following headings:

I. Recommended for advancement.

- II. Recommended for readmission to the same class.
- III. Recommended neither for advancement nor for readmission to the same class:
 - a) Because of failure.
 - b) Because they fall under paragraph 2 of requirements for promotion.

GRADING OF STUDENTS

The following grade equivalents are used: A, excellent; B, good; C, fair; F, failure.

REQUIREMENTS FOR GRADUATION

In addition to complying with the requirements for admission and to completing the required work of the curriculum, each candidate for the degree of Doctor of Dental Surgery must present satisfactory evidence as required by law of good moral character and of having attained the age of twenty-one years. If the candidate shall have been admitted to advanced standing, he must have spent not less than four academic years or their equivalent in approved medical or dental colleges in the study of the subjects making up the curriculum of the School of Dental and Oral Surgery.

GRADUATION

Commencement occurs in June, at which time all recipients of degrees awarded during the academic year are expected to attend the exercises. Diplomas are issued in June or at various times during the year.

No degree will be granted to a student who has not registered for and attended at the University courses of instruction equivalent to at least one academic year of full-time work.

An application for a degree, other than the several doctoral degrees, terminates at the next regular time for the issuance of diplomas subsequent to the date of filing; but under conditions prescribed by the respective faculties it may be subject to renewal for a fee of

\$1.00 each time that a candidate chooses to come up for consideration, within a period not to exceed three years. Thereafter with the filing of a second application the regular fee of \$20 is again payable.

Dates for the filing of applications are given in the Academic Calendar at the beginning

of this Announcement.

COURSES FOR DENTAL HYGIENISTS

In September, 1947, the period of training for dental hygienists was increased from one to two academic years. On October 21, 1947, the University Council approved the establishment of the degree of Bachelor of Science to be conferred upon students who, having been admitted on the basis of two years of approved college study covering not less than sixty points (including satisfactory courses in English, biological science or chemistry, and sociology or psychology), complete the course of instruction in the field of dental hygiene, consisting of two academic years of study, prescribed by the Faculty of Medicine.

Candidates for admission must be women between the ages of eighteen and thirty-five years and most present a record of good health. All candidates are required to make formal application in writing on blanks supplied by the School. After the application has been submitted, the academic record of the candidate should be sent to the School at the request of the candidate. Wherever possible, a personal interview is required before the candidate

is accepted.

Applicants must satisfy the following requirements: Two years of sixty semester hours of credit in liberal arts from a college or university approved by Columbia University. The following subjects are required:

	Semester Hou
English	6
Biological science or chemistry	3
Sociology or psychology	3

Upon the successful completion of the two-year curriculum in dental hygiene, the

Bachelor of Science degree will be conferred.

Applicants who lack not more than eight credits of the sixty credits required for admission will be considered for matriculation on the condition that the eight credits be earned during the Summer Session between the Junior and Senior years.

For further information address the Director, Courses for Dental Hygienists, 630 West

168th Street, New York 32, N.Y.

SHORT COURSES FOR GRADUATES IN DENTISTRY

The School of Dental and Oral Surgery arranges courses in the various divisions of dentistry to meet the needs of groups of practitioners. In 1953–1954 short refresher courses will be offered in various subjects.

Admission requirements include graduation from an approved dental school and licensure to practice dentistry within the United States or a foreign country. There is no degree or certificate offered for these courses. For further information see the Announcement of Postgraduate Courses for Dentists, which may be obtained from the Dean, School of Dental and Oral Surgery.

CERTIFICATE OF TRAINING

The School of Dental and Oral Surgery is authorized to grant certificates of training in special branches of dentistry. The course of study for the certificate of training includes

not less than thirty credits of special work in the clinical and basic science branches of dentistry approved by the Dean. At present, an organized sixteen-month course is offered to qualified graduates in dentistry who wish to prepare for specialization in orthodontics. Advanced courses leading to certificates of training are also offered in oral diagnosis and roentgenology, oral surgery, orthodontics, pedodontics, and periodontology. For further information see the Announcement of Postgraduate Courses for Dentists, which may be obtained from the Dean, School of Dental and Oral Surgery.

GRADUATE COURSES IN THE BASIC SCIENCES

A limited number of fellowships are available to graduates of dental schools acceptable to Columbia University. These fellowships offer opportunity for study in the following basic science departments of the University: anatomy, biochemistry, microbiology, pathology, pharmacology, and physiology. For further information regarding qualifications and stipend, address the Dean, School of Dental and Oral Surgery.

COURSES LEADING TO THE DEGREE OF DOCTOR OF PHILOSOPHY

Graduation from accredited dental schools under the present curriculum of four academic years preceded by three acceptable predental college years is considered by the Graduate Faculties of Columbia University as meeting the general requirement for admission. There are additional admission requirements in certain departments. A student who is accepted by the Graduate Faculties as a candidate for the degree of Doctor of Philosophy and who holds the Doctor of Dental Surgery degree from Columbia University may, with the consent of the Dean, offer the work done for the professional degree in lieu of thirty points toward the fulfillment of the residence requirement for the degree. For further information see the Announcement of the Faculty of Pure Science, which may be obtained by writing to the Office of University Admissions, 322 University Hall, Columbia University, New York 27, N. Y.

PUBLIC HEALTH FOR DENTISTS

A one-year course leading to a Master of Public Health degree is offered by the School of Public Health. The course is open to graduate dentists. For further information regarding course content, registration, and fees, apply to the Director, School of Public Health, 600 West 169th Street, New York 32, N.Y.

LICENSE TO PRACTICE DENTISTRY IN NEW YORK STATE

Those desiring to take the New York State Board examinations are advised to address the Bureau of Professional Education, New York State Department of Education, 23 South Pearl St., Albany 7, N.Y. All applications for admission to the examinations should be completed at least thirty days before the examinations begin.

The State Department of Éducation will admit conditionally to the examination in anatomy, physiology and hygiene, chemistry and metallurgy, and histology, applicants over nineteen years of age who are of good character, who are citizens of the United States or have declared their intention of becoming citizens in accordance with the law, who have completed the prescribed preliminary education requirement, and who are certified as having successfully completed the first two years of the required course in a registered dental school.

PLAN OF INSTRUCTION

The curriculum is arranged with the object of providing the student with the necessary opportunities for acquiring a knowledge of the fundamental sciences in relation to dentistry and the techniques of approach in dental problems. Beginning in the first two academic years with a study of the basic sciences, particularly anatomy, biochemistry, microbiology, pathology, pharmacology, and physiology, the student prepares himself for an understanding of the problems to be encountered in his later clinical work. The third and fourth academic years are devoted to mastering the methods of diagnosis and treatment of patients and acquiring a knowledge of disease patterns and the arts and skills required in preventing, curing, or controlling them.

Throughout the entire course an effort is made to interrelate the different phases of the dental learning by means of "correlative" and "combined" clinics in which the various departments and divisions cooperate in the discussion and demonstration of the same and related problems and thus treat the study of dentistry as a unit rather than a series of isolated branches of learning. At the same time an attempt is made to individualize instruction and to place responsibility as far as practicable upon the student for his own training. This is accomplished by means of the division of classes into small

sections, conferences, and the comprehensive case method of instruction.

CURRICULUM

1953-1954

Subjects*	Lecture or Seminar Hours	Lab. or Clinic Hours	Total Hours
FIRST YEAR			
Anatomy			
Embryology 152 F	18		18
Gross 151 FS	50	222	272
Microscopic 150 FS	42	126	168
Neuro 153 T	30	36	66
Oral 101 ST	19	82	101
Biochemistry 150 ST	38	117	155
Histology, Oral 115 ST	25	52	77
Physiology 150 FS	56	152	208
Theory and Practice			
Dental History 287 T	10		10
			1,075

^{*} Letter following course number designates trimester: $F \equiv$ first, $S \equiv$ second, and $T \equiv$ third.

Subjects*	Lecture or Seminar Hours	Lab. or Clinic Hours	Total Hours		
SECOND YEAR					
Crown and Bridge 105 ST	20	184	204		
Dental Materials 126 FS	10	56	66		
Microbiology 151 F and 152 F	43	99	142		
Operative Dentistry 131 FST	20	187	207		
Pathology 150 FS	54	141	195		
Periodontology 151 T	10	44	54		
Pharmacology 150 ST	55	33	88		
Prosthetic Dentistry 157 FST	20	198	218		
Psychiatry 150 S	II		11		
Surgery, Principles 168 ST	10		10		
Surgery, Oral 270A ST Theory and Practice	10		10		
Therapeutics 286 T	10		10		
THIRD WEAR			1,215		
THIRD YEAR Anatomy, Applied 252 S Crown and Bridge	10		10		
Technique 205 F		96	96		
Clinic 206 ST	10	114	124		
Applied Occlusal Dynamics 212 T		30	30		
Diagnosis 212 FST	30	25	55		
Operative Dentistry 233 FST	10	276	286		
Orthodontics 241 F	20	60	80		
Pathology, Oral 246 FS	20	6о	80		
Periodontology 251 S		30	30		
Practice of Medicine 278 ST	40	22	62		
Prosthetic Dentistry 260 FST and 261 FST	20	177	197		
Radiology 267 F	10	15	25		
Surgery, Oral 270B F	10	20	30		
FOURTH YEAR			1,105		
Crown and Bridge 210 FST and 211 FST	10	165	775		
Diagnosis 213 F	10	25	175		
Diagnosis Seminar 214 S		30	25 30		
Diagnosis 215 T (continuation of 214)	10	30	10		
Orthodontics 242 FST		30	30		
Operative Dentistry 234 FST	20	305	325		
Pedodontics 202 FST	10	87	97		
Periodontology 252 FS and 253 FS	20	30	50		
Prosthetic Dentistry 263 FST and 264 FST	10	165	175		
Public Health 222 S	20		20		
Surgery, Oral 272 FST	40	60	100		
Surgery Seminar 274 T	10		10		
Surgical Prosthesis 265 T Theory and Practice		30	30		
Dental History 283 F Ethics, Jurisprudence and Practice Man-	10		10		
agement 281 FST Comprehensive 285 T	30		30		
			1,117		

^{*} Letter following course number designates trimester: F = first. S = second. and T = third.

COURSES OF INSTRUCTION

For purposes of instruction the work of each academic year is scheduled in three sessions of eleven weeks each, which are designated as First, Second, and Third Trimesters.

For a detailed statement of the content of each course, the student is referred to the departmental statements which follow.

The outline on pages 14 and 15 shows the work required of a candidate for the degree of Doctor of Dental Surgery. The University reserves the right to make such changes in the program of studies at any time as experience may prove desirable.

ANATOMY

Anatomy 101-Oral anatomy. Freshman year.

Lectures on gross anatomy of the teeth and related tissues. Laboratory reproduction of individual teeth in wax. Setting up teeth in occlusion. Restoring anatomy of carious teeth in wax and macroscopic study of structural parts of teeth.

Anatomy 115-Oral histology and embryology. Freshman year.

Lectures and laboratory work on growth and development of the jaws and face; microscopic anatomy of the teeth and surrounding and related tissues of the oral cavity. Application of this knowledge to technical dentistry.

Anatomy 150-Microscopic anatomy. Freshman year.

Lectures, conferences, and laboratory.

This course is the same as Anatomy 101F in the Medical School.

Anatomy 151—Gross anatomy. Freshman year.

Lectures, conferences, and laboratory.

Anatomy 152—Embryology. Freshman year.

Lectures and demonstration dealing with the dynamics of vertebrate development, with particular reference to mammals and man.

Anatomy 153—Neuroanatomy. Freshman year.

Lectures and demonstrations on the gross anatomy, structure, and functions of the central nervous system. This course is equivalent to *Anatomy 106S* in the Medical School.

Anatomy 252—Applied anatomy of the head and neck. Junior year.

Lectures and demonstrations. A review course with special application to the problems of the major fields of dentistry.

BIOCHEMISTRY

Biochemistry 150—Introductory biochemistry. Freshman year.

Lectures and laboratory. A study of the chemistry of life processes with special reference to the animal organism.

DENTAL MATERIALS

Dental Materials 126—Physical properties of dental materials. Sophomore year.

Lectures and laboratory on the physical and chemical properties of the metals and other materials used in dentistry, with clinical applications.

DIAGNOSIS

Diagnosis 212—Dental diagnosis lectures and clinic. Junior year.

Lectures and clinical practice in diagnostic procedures, comprehensive diagnosis, pulp symptomatology, radiographic interpretation, and diagnosis of lesions and diseases of the oral cavity.

Diagnosis 213—Dental diagnosis clinic. Senior year.

Continuation of clinic of Diagnosis 212.

Diagnosis 214—Diagnosis seminar. Senior year.

Discussion and differential diagnosis of diseases of the oral cavity.

Diagnosis 215—Diagnosis seminar. Senior year.

Continuation of Diagnosis 214.

MEDICINE

Medicine 278—General survey of medicine. Junior year.

Lectures and conferences covering phases of general medicine; also clinics in which patients are studied for conspicuous manifestations of systemic conditions and their significance.

MICROBIOLOGY

Microbiology 151—General medical microbiology and immunology. Sophomore year.

Lectures, conferences, and laboratory.

Microbiology 152—Principles of microbiology, immunology, and epidemiology. Sophomore year.

This course is identical with *Microbiology 105F* in the Medical School except that lectures on the mouth bacteria are substituted for several of those of the medical series.

OPERATIVE DENTISTRY

Operative Dentistry 131—Elements of operative dentistry. Sophomore year.

Lectures on the fundamentals of operative dentistry, including the etiology of dental caries and the biological approach to the technical procedures in the filling of teeth.

Operative Dentistry 233—Operative clinical practice. Junior year.

Introduction to clinical practice. Lectures on the application of operative fundamentals to clinical practice. Clinical practice and demonstrations.

Operative Dentistry 234—Advanced clinical practice. Senior year.

A continuation in lectures and clinic of Operative Dentistry 233 with the consideration of special problems in operative practice, including endodontia.

ORTHODONTICS

Orthodontics 241—Principles of orthodontics. Junior year.

Lectures and laboratory. Orthodontic fundamentals with special emphasis on prevention of malocclusion in orthodontics by the early recognition and correction of the predisposing factors. Laboratory time is devoted to the designing and constructing of removable appliances used as space maintainers and habit breakers and to correcting tooth alignment in preparation for restorative dentistry and treatment of periodontal conditions. Clinical practice in the use of appliances constructed in the laboratory.

Orthodontics 242—Orthodontic clinic. Senior year.

Clinical orthodontics.

PATHOLOGY

Pathology 150—General and special pathology. Sophomore year.

A study of important pathological conditions, demonstrated by museum specimens and a very complete series of histological preparations.

Pathology 246—Oral pathology. Junior year.

Lectures, conferences, and laboratory work on the diseases of the jaws, mouth, and teeth.

Pathology 247—Oral pathology seminar. Senior year. Elective.

Conferences on the clinical application of oral pathology.

PEDODONTICS

Pedodontics 202—Pedodontics lectures and clinic. Senior year.

Lectures and conferences on operative dental procedures for children and management of child dental patients.

PERIODONTOLOGY

Periodontology 151-Periodontia clinic. Sophomore year.

Lectures and clinics on dental prophylactic technique and early disturbances of the periodontium.

Periodontology 251—Periodontia clinic. Junior year.

Lectures and clinics in the diagnosis and treatment of periodontal diseases.

Periodontology 252—Periodontology lectures. Senior year.

Lectures and conferences on the theory and practice of periodontology and periodontal histopathology.

Periodontology 253—Periodontia clinic. Senior year.

Work in clinics in the diagnosis and treatment of advanced periodontal diseases.

PHARMACOLOGY

Pharmacology 150—Pharmacology. Sophomore year.

Lectures, conferences, and laboratory. In this course the pharmacological action of drugs on man and lower animals is studied.

PHYSIOLOGY

Physiology 150-Mammalian physiology. Freshman year.

Lectures, conferences, and laboratory.

PROSTHETIC DENTISTRY

Prosthetics 105—Crown and bridge lectures and technique. Sophomore year.

Lectures on the technical procedures in crown and bridgework, with practical application, and the construction of bridges and crowns on technique models.

Prosthetics 157—Prosthetic lectures and technique. Sophomore year.

Lectures and technical procedures in full and partial denture construction.

Prosthetics 205—Crown and bridge lectures and technique. Junior year.

Lectures on the clinical procedures in crown and bridgework.

Prosthetics 206—Crown and bridge clinic. Junior year.

Clinical construction of elementary crown and bridgework.

Prosthetics 210—Crown and bridge lectures. Senior year.

Lectures and conferences on various types of bridgework.

Prosthetics 211—Crown and bridge clinic. Senior year.

Clinical construction of crown and bridgework.

Prosthetics 212—Applied occlusal dynamics. Junior year.

Lectures, demonstrations, and technique stressing the relationship of occlusal deformities, both natural and acquired, to oral physiology.

Prosthetics 260—Prosthetic lectures. Junior year.

Examination, classification, application of anatomical considerations, and clinical procedure in full and partial denture construction.

Prosthetics 261—Prosthetic clinic. Junior year.

Clinical construction of full and partial dentures.

Prosthetics 263—Prosthetic clinic. Senior year.

Clinical construction of full and partial dentures.

Prosthetics 264—Prosthetic lectures. Senior year.

A series of lectures on clinical considerations in partial denture diagnosis, design, and construction.

Prosthetics 265—Surgical prosthesis. Senior year.

Lectures and technical procedures in maxillofacial and surgical prosthesis.

PSYCHIATRY

Psychiatry 150—Psychiatry for the dentist. Sophomore year.

Lectures on mental hygiene and general principles involved in the field of psychiatry. The development and organization of the personality. The effects of emotional problems, in the development of psychological symptoms, and psychosomatic disorders. General considerations in psychotherapy.

PUBLIC HEALTH

Public Health 222—Principles of public health. Senior year.

Survey course in the theory and practice of preventive medicine, dentistry, and public health. Fundamental principles of administration, statistics, epidemiology, industrial hygiene, and sanitation. The principles and problems of dental public health practice are emphasized.

RADIOLOGY

Radiology 267—Oral radiology practice. Junior year.

Lectures, readings, and discussions on topics relative to oral radiology. Practice in exposing, processing, and mounting dental radiographs.

SURGERY

Surgery 168—Principles of surgery. Sophomore year.

Lectures, seminars, and basic principles of general surgery.

Surgery 270A—Oral surgery. Sophomore year.

Lectures and seminars on local anesthesia and removal of teeth.

Surgery 270B—Oral surgery. Junior year.

Demonstrations, lectures, and clinical practice in local anesthesia and the removal of teeth.

Surgery 272—Oral surgery. Senior year.

Lectures and conferences on oral and maxillofacial surgery and general anesthesia.

Clinical practice in local anesthesia and the removal of teeth. Clinical demonstrations in the diagnosis and operative procedures in the treatment of diseases, injuries, and malformation about the face, jaws, and oral cavity.

Surgery 274—Oral surgery seminar. Senior year. Required.

Lectures and seminars in diagnosis and treatment-planning in the field of oral surgery. Case presentation.

THEORY AND PRACTICE OF DENTISTRY

Theory and Practice 281—Dental ethics, jurisprudence, and practice management. Senior year.

Lecture and conference course on dental ethics, jurisprudence, economics, office conduct, and practice management.

Theory and Practice 283—Dental history. Senior year.

Lecture and conference course. The development of the scientific principles of modern dentistry is discussed.

Theory and Practice 285—Comprehensive case. Senior year.

Each student is assigned a case for which he performs all the dental services: taking of X-ray negatives, treatment-planning, surgery, and reparative and restorative procedures. The services are carried out in the various clinical divisions. The oral examination accompanying the inspection of the completed case aims to correlate the teaching of the entire course.

Theory and Practice 286—Therapeutics. Sophomore year.

Lectures and conferences on drugs and other therapeutic agents used in dentistry.

Theory and Practice 287—Dental history. Freshman year.

Lecture and conference course. The development of the scientific principles of modern dentistry is discussed.

TEXTROOKS

The following list includes most of the books normally used. As a rule, only the latest editions of the textbooks should be purchased. Students are warned against buying any books until specifically advised by the departments concerned.

Anatomy. Gross anatomy: One of the following three: Stedman, Gould, Dorland, or American, Medical Dictionary; Cunningham, Manual of Practical Anatomy, Vols. II and III; mimeographed Dissecting Directions; one of the following four: Grant, Atlas of Anatomy; Truex and Kellner, Detailed Atlas of the Head and Neck; Spalteholz, Hand Atlas of Human Anatomy; or Anson, Atlas of Human Anatomy.

APPLIED ANATOMY: Shapiro, Applied Anatomy of the Head and Neck (2d ed.).

EMBRYOLOGY: One of the following three: Arey, Developmental Anatomy; Hamilton, Human Embryology; or Patten, Human Embryology.

MICROSCOPIC ANATOMY: Bailey, Textbook of Histology (12th ed.); mimeographed laboratory manual.

NEUROANATOMY: Strong and Elwyn, Human Neuroanatomy; mimeographed laboratory manual.

ORAL HISTOLOGY AND EMBRYOLOGY: Orban, Oral Histology and Embryology; Diamond, Dental Anatomy.

BIOCHEMISTRY: Harrow, Textbook of Biochemistry (5th ed.); Karshan, Laboratory Manual of Biochemistry for Dental Students.

Dental Ethics and Practice Management: McGehee and Walker, Dental Practice Management.

Dental Therapeutics: Council on Therapeutics, American Dental Association, Accepted Dental Remedies; McGehee and Green, Pharmacology and Pharmacotherapeutics for Dentists.

Diagnosis: Ziskin et al., Differential Diagnosis; Ziskin, Pulp Symptomatology (1943 ed.); Thoma, Oral Pathology (3d ed.).

Medicine: Yater, Fundamentals of Internal Medicine (3d rev. ed.).

Microbiology: Jordan and Burrows, Textbook of Bacteriology (15th ed.); Laboratory Manual in Microbiology and Immunology.

OPERATIVE DENTISTRY: Black, Operative Dentistry, Vols. II and III; Operative Dentistry Syllabus; Grossman, Root Canal Therapy.

Oral Pathology: Thoma, Oral Pathology (3d ed.); or Kronfeld, Histopathology of the Teeth (3d ed.).

ORTHODONTICS: Salzman, Principles of Orthodontics.

Pathology: One of the following four: Boyd, Textbook of Pathology; Karsner, Textbook of Pathology; Moore, Textbook of Pathology; or Anderson's Pathology.

Pedodontics: McBride, Juvenile Dentistry (4th ed. or later).

Periodontology: Goldman, Periodontia.

PHARMACOLOGY: Goodman and Gilman, Pharmacological Basis of Therapeutics (1951).

Physiology: One of the following six: Wiggens, Physiology in Health and Disease (5th ed.); Fulton, Textbook of Physiology (16th ed.); Starling, Human Physiology (10th ed.); Best and Taylor, Physiological Basis of Medical Practice (1950); Bard, Macleod's Physiology in Modern Medicine (9th ed.); or Houssay, Human Physiology; and Physiology Laboratory Manual.

PROSTHETIC DENTISTRY: Skinner, Science of Dental Materials; Swenson, Complete Dentures; Tylman, Crown and Bridge Prosthesis; United States Government Printing Office, Physical Properties of Dental Materials; Young et al., Syllabus on Complete Dentures.

PSYCHIATRY: Strecker, Fundamentals of Psychiatry (4th ed.).

RADIOLOGY: McCall and Wald, Clinical Dental Roentgenology (3d ed.).

Surgery: Berger, Principles and Technique of Oral Surgery; Berger, Principles and Technique of the Removal of Teeth; Parker, Synopsis of Traumatic Injuries of the Face and Jaw.

SURGICAL PROSTHESIS: O. E. Beder, Surgical and Maxillofacial Prosthesis.

STUDENT ORGANIZATIONS

REGISTRATION OF STUDENT ORGANIZATIONS

Blanks for the registration of student organizations, other than those for which the responsibility is assumed by a faculty or department of instruction, may be obtained at the room assignment desk in the Office of the Registrar, 315 University Hall.

Such student organizations come under the jurisdiction of the Committee on Student Organizations of the University Council and may be granted the privileges of the use of names in which the name of the University is embodied or suggested and the use of University rooms or grounds for meetings and bulletin boards for announcements, only if they have filed their registration blanks, furnishing the committee with lists of officers and other executive members, statements of purposes, copies of constitutions and bylaws, and information concerning the nature of any affiliation or connection with non-University organizations.

OMICRON KAPPA UPSILON

Epsilon Epsilon chapter of Omicron Kappa Upsilon, national honorary fraternity, was chartered in the School of Dental and Oral Surgery in 1934. The purpose of this organization is to recognize and honor a maximum of 12 per cent of the members of the graduating Senior class, on the basis of scholarship, character, and possession of potential qualities for future professional growth and attainments.

THE WILLIAM JARVIE SOCIETY

The William Jarvie Society for Dental Research is a nonsecret, dental honor society, membership in which is based on scholarship and interest in dental research, and to which Sophomores, Juniors, and Seniors are eligible. The society was organized in the School of Dental and Oral Surgery in 1920 and named after Dr. William Jarvie because of his wide interest in the promotion of dental research. The society aims to promote the spirit of research among the students.

FACILITIES

LIBRARY

The Medical Library occupies part of the three lower floors in the College of Physicians and Surgeons. It provides current literature (both books and journals) for faculty and students, and it aids in research through its own collections of current and historical works and through its unique bibliographic service.

The Library contains approximately one hundred and eighty thousand volumes of books and journals, some five thousand pamphlets, and about two thousand lantern slides on the history of medicine. More than twenty-two hundred periodicals are received regularly. A professional library staff is available to aid students, faculty, and research workers in the Schools of Medicine, Dentistry, Nursing, Public Health, and the hospitals of the Medical Center.

The libraries on Morningside Heights, containing more than two million volumes, are open to all students of dentistry. The main collection is housed in Butler Library; special and departmental collections are located in various other buildings on the campus. They

include collections on biology, chemistry, physics, psychology, sociology, and other subjects related to dentistry and supplement the special collections available in the Medical Library. Books may be borrowed for home use.

Leaflets describing the collections and services of the University Libraries are available in any of the library reading rooms. The Medical Library and all other libraries post

their hours of opening.

UNIVERSITY PRIVILEGES

All students enrolled in the Dental School enjoy the privileges and facilities of the University campus, including access to the University libraries, Gymnasium, and other activities.

University Gymnasium.—The Gymnasium is situated on Morningside Heights and is open daily, except Sundays and holidays. Students of the School of Dental and Oral Surgery may enjoy its privileges and have the use of the Gymnasium, baths, and private lockers. A service charge for physical education, amounting to one dollar (\$1.00) per session (Winter, Spring, or Summer), is charged each student using the facilities of the University Gymnasium without formal registration in physical education courses. In addition a deposit must be made of two dollars (\$2.00) for a lock, locker, and towel.

STUDENT HEALTH SERVICE

The Student Health Service is located in Room 220, 2nd Floor, Vanderbilt Clinic. Daily office hours are held for sick students. Emergency treatment after 5:00 P.M. and on week ends may be obtained in Admitting Emergency, Vanderbilt Clinic. Students, sick at home, and living within the immediate vicinity of the Medical Center, may contact the Physician-in-Charge of the Health Service. Students requiring hospitalization will be taken care of either in the wards of the Medical Center or elsewhere under a hospitalization insurance policy.

RELIGIOUS LIFE

The life of the University community finds religious expression through St. Paul's Chapel and Earl Hall and through the ministry of the Chaplain and those associated with him in his work. The Chaplain of the University is assisted by three religious counselors: the Counselor to Protestant Students, the Counselor to Roman Catholic students, and the Counselor to Jewish students.

Daily services are held in the Chapel, and students are urged to familiarize themselves

with the schedules, which are conveniently posted.

There are a number of student religious organizations to which the Chaplain and counselors serve as advisers and with which students are cordially urged to affiliate themselves.

The Chaplain and the counselors are especially eager to establish warm personal relations with students and to meet them in consultation, at the Chapel or in their offices in Earl Hall.

UNIVERSITY RESIDENCE HALLS

Residence Halls Announcements and application blanks for rooms may be obtained (for men) from the Men's Residence Halls Office, 125 Livingston Hall, Columbia University, New York 27, N.Y., or (for women) from the Johnson Hall Office, 411 West 116th Street, New York 27. The advance reservation deposit is payable upon receipt of room assignment. Checks must be made payable to Columbia University.

KING'S CROWN HOTEL

The King's Crown Hotel, 420 West 116th Street, near the campus, is owned by the University. It provides accommodations at reasonable rates, available for relatives and guests of members of the University community.

INTERNATIONAL HOUSE

International House, while not a University Residence Hall, is primarily a residence for students at Columbia University and other colleges and universities in New York City. It offers comfortable accommodations at reasonable rates. For further information, write to International House, 500 Riverside Drive, New York 27, N.Y.

MEDICAL CENTER BOOKSTORE

The Medical Center Bookstore, located on the second floor of the College of Physicians and Surgeons, is maintained for the convenience of the students and staff of the Medical Center schools and hospitals. The store carries a full stock of textbooks and all other student supplies. Substantial savings are effected whenever the rules of manufacturers and publishers permit. The store is open on weekdays from 8:45 A.M. to 5:30 P.M.; Saturdays, 8:45 A.M. to 1:30 P.M.

FELLOWSHIPS, SCHOLARSHIPS, AND PRIZES

Recipients of University financial aid in excess of tuition, whether in the form of fellowships, scholarships, or other grants, will be asked to reside in the University Residence Halls unless exempted by the appropriate Dean with the approval of the President upon the presentation of adequate reasons for living elsewhere.

Three Ellis Fellowships are awarded annually to qualified graduates of any of the colleges of recognized rank in the state of Vermont. The holders of these fellowships may pursue resident graduate studies under any one of the graduate schools maintained by the University and are eligible for reappointment for no more than two additional years, with the proviso that a holder of the fellowship who is a student in medicine may be eligible for reappointment for no more than three additional years. The annual stipend is \$1,500. Applications should be submitted on or before February 20 on blanks to be filed with the Office of University Admissions.

See also "Graduate Courses in the Basic Sciences" on page 13.

The Van Woert Scholarship Fund was established by the alumni of the School of Dental and Oral Surgery in 1940. The award is given annually to a Senior student in the dental school who stands high in scholastic attainments, in personal character, and in potentiality of being a credit to Columbia University and the dental profession.

A prize known as the Ella Maria Ewell Medal is awarded annually to the student of the School of Dental and Oral Surgery who, in the judgment of the Faculty, is most

proficient in some subject of dentistry.

The Alumni Association makes an annual award of the Rowe-Wiberg Medal to the Senior student who has shown the greatest proficiency in prosthetic dentistry.

An annual award is made by the Sigma Epsilon Delta Fraternity to the graduating student who, in the opinion of the Faculty, shows the greatest promise.

The staff of the Division of Operative Dentistry has established an annual prize for excellence in operative dentistry.

STUDENT LOANS

Loan funds are provided in a limited amount for the assistance of students, but it is the general policy to grant loans only to students who have satisfactorily completed at least one session of residence at the University. Application is made on a blank which may be obtained from the Office of the Bursar, 310 University Hall. Applications for loans for the Winter Session should be filed by September 15; for the Spring Session, by January 15.

STUDENT EMPLOYMENT

Owing to the heavy schedule of the Dental School, it is difficult for dental students to undertake outside part-time work during the academic year and, so far as practical, other financial arrangements should be made.

OFFICERS OF INSTRUCTION

HAROLD A. ABRAMSON, Assistant Clinical Professor of Physiology; A.B., Columbia, 1920; M.D., 1923 THOMAS H. ALLEN, Associate Professor of Physi-

ology; A.B., Iowa, 1936; Ph.D., 1941 FRANZ ALTMANN, Associate Clinical Professor of

Otolaryngology; M.D., Vienna, 1925

VIRGINIA APGAR, Professor of Anesthesiology; A.B., Mt. Holyoke, 1929; M.D., Columbia, 1933

EDMUND APPLEBAUM, Associate Professor of Dental Anatomy; D.D.S., New York College of Dentistry, 1922

HOWARD ARDEN, Assistant Professor of Dentistry; B.S., Fordham, 1943; D.D.S., Columbia, 1946 HERBERT D. AYERS, JR., Assistant Clinical Professor

of Dentistry; A.B., Columbia, 1929; D.D.S., 1931 W. BARNARD, Associate Professor of MARGARET

Public Health Practice; A.B., Smith, 1917; M.D., Cornell, 1923; D.P.H., Johns Hopkins, 1935

HENRY A. BARTELS, Assistant Professor of Oral Pathology; B.S., Rhode Island State, 1917; B.S., Columbia, 1925; D.D.S., 1927

HERBERT BARTELSTONE, Assistant Professor of Pharmacology; B.S., College of the City of New York, 1942; D.D.S., Columbia, 1945 FRANK E. BEUBE, Clinical Professor of Dentistry;

L.D.S., D.D.S., Toronto, 1930

HAROLD W. BROWN, Associate Dean (Public Health); Director, School of Public Health; Profes-sor of Parasitology; A.B., Kalamazoo, 1924; M.S., Kansas State, 1925; Sc.D., Johns Hopkins, 1928; M.D., Vanderbilt, 1933; D.P.H., Harvard, 1936 JACK BUDOWSKY, Assistant Clinical Professor of Dentistry; D.D.S., Columbia, 1943

THEODORE BUNDRANT, Assistant Clinical Professor of Dentistry; D.D.S., Howard, 1929

LESTER R. CAHN, Associate Professor of Oral Pathol-

ogy; D.D.S., New York College of Dentistry, 1918 EDWARD A. CAIN, JR., Associate Professor of Dentistry; B.S., Fordbam, 1942; D.D.S., Columbia, 1945

NEAL W. CHILTON, Assistant Professor of Dental Public Health Practice; B.S., College of the City of New York, 1939; D.D.S., New York University, 1943; M.P.H., Columbia, 1946

LOUIS J. CIZEK, Assistant Professor of Physiology;

B.S., Fordham, 1937; M.D., Columbia, 1941
E. GURNEY CLARK, Professor of Epidemiology;
A.B., Vanderbilt, 1927; M.D., 1931; M.P.H., Johns Hopkins, 1936; D.P.H., 1944

HANS T. CLARKE, Professor of Biochemistry; B.Sc., London, 1908; D.Sc., 1914

LOUIS A. COHN, Associate Clinical Professor of Dentistry; D.D.S., Pennsylvania, 1928

ROBERT W. COON, Assistant Professor of Pathology; B.S., North Dakota, 1942; M.D., Rochester, 1944 WILFRED M. COPENHAVER, Professor of Anat-

omy; A.B., Western Maryland, 1921; Ph.D., Yale, 1925 JOSEPH A. CUTTITA, Assistant Professor of Dentis-

try; A.B., Fordham, 1932; M.S., 1936; D.D.S., Columbia, 1939 SAMUEL R. DETWILER, Professor of Anatomy; Ph.B., Yale, 1914; A.M., 1916; Ph.D., 1918; M.S.

(hon.), 1931 NICHOLAS DISALVO, Assistant Professor of Physiology; D.D.S., Columbia, 1945; Ph.D., 1952

ADOLPH ELWYN, Associate Professor of Neuroanatomy; B.S., Columbia, 1915; A.M., 1917

EARL T. ENGLE, Professor of Anatomy; A.B., Ne-Wesleyan, 1920; A.M., Colorado, 1924; Ph.D., Stanford, 1925

JOHN W. FERTIG, Professor of Biostatistics; A.B., Ursinus, 1931; Ph.D., Minnesota, 1935

MORRIS FIERSTEIN, Associate Clinical Professor of Dentistry; D.D.S., Columbia, 1921

JOSEPH E. FLYNN, Associate Professor of Pathology; A.B., Columbia (Iowa), 1933; M.D., Iowa, 1938

LEWIS FOX, Assistant Clinical Professor of Dentistry; D.D.S., Maryland, 1927

HARRY A. GALTON, Associate Clinical Professor of Dentistry; D.D.S., Columbia, 1932

ALFRED GILMAN, Professor of Pharmacology; B.S., Yale, 1928; Ph.D., 1931

LEONARD J. GOLDWATER, Professor of Occupational Medicine; A.B., Michigan, 1924; M.D., New York University, 1928; Med.Sc.D., 1937; M.S.P.H., Columbia, 1941

ROBERT GOTTSEGEN, Assistant Professor of Dentistry; A.B., Michigan, 1939; D.D.S., Columbia,

1943

MAGNUS I. GREGERSEN, Dalton Professor of Physiology; A.B., Stanford, 1923; A.M., 1924; Ph.D., Harvard, 1930

ROBERT E. HERLANDS, Associate Professor of Dentistry; A.B., Columbia, 1941; D.D.S., 1944

MAURICE J. HICKEY, Associate Dean (Dental and Oral Surgery); Professor of Oral Surgery; D.M.D., Harvard, 1932; M.D., Columbia, 1937

GEORGE W. HINDELS, Assistant Clinical Professor of Dentistry; M.D., Vienna, 1938; D.D.S., Colum-

bia, 1943

LEONARD HIRSCHFELD, Assistant Clinical Professor of Dentistry; A.B., Columbia, 1941; D.D.S.,

FRANKLIN HOLLANDER, Assistant Clinical Professor of Physiology; B.S., Columbia, 1919; Ph.D., 1923 HOUGHTON HOLLIDAY, Professor of Dentistry; A.B., Minnesota, 1915; D.D.S., 1917; D.D.S.

(hon.), Montreal, 1945 IRVIN L. HUNT, JR., Associate Professor of Dentis-

try; D.D.S., Penosylvania, 1929

ALVIN R. JACOBSON, Associate Professor of Sanitary Science; B.S., North Dakota, 1935; M.S., 1937; Ph.D., Iowa, 1941

DOROTHY D. JOHNSON, Assistant Professor of Anatomy; A.B., Bates, 1941; A.M., Vassar, 1943; Ph.D., Columbia, 1949

ELVIN A. KABAT, Professor of Microbiology; B.S., College of the City of New York, 1932; A.M., Columbia, 1934; Ph.D., 1937 MAXWELL KARSHAN, Associate Professor of Bio-

chemistry; B.S., College of the City of New York, 1917; A.M., Columbia, 1920; Ph.D., 1925

BARNET M. LEVY, Professor of Dentistry; A.B., Pennsylvania, 1938; D.D.S., 1942; M.S., Virginia, 1944

NOLAN D. C. LEWIS, Professor of Psychiatry; M.D., Maryland, 1914
GEORGE F. LINDIG, Associate Clinical Professor of

Dentistry; D.D.S., Minnesota, 1924

JOHN J. LUCCA, Assistant Professor of Dentistry; A.B., New York University, 1941; D.D.S., Columbia, 1947

CLARE K. MADDEN, Assistant Clinical Professor of Dentistry; D.D.S., Michigan, 1923

WILLIAM J. MILLER, Assistant Clinical Professor of Dentistry; A.B., New York University, 1940; D.D.S., Columbia, 1943

SAUL MISHELOFF, Assistant Clinical Professor of Dentistry; D.D.S., Columbia, 1932 MELVIN MORRIS, Assistant Clinical Professor of Dentistry; B.S., College of the City of New York, 1934; M.A., Columbia, 1937; D.D.S., 1941 WILLIAM L. NASTUK, Assistant Professor of Physi-

ology; B.S., Rutgers, 1939; Ph.D., 1945

ALVIN S. NATHAN, Assistant Clinical Professor of Dentistry; B.S., New York University, 1935; A.M., 1938; D.D.S., Columbia, 1936

JOHN L. NICKERSON, Professor of Physiology; B.A., Dalhousie, 1925; M.A., 1928; Ph.D., Princeton, 1935

CARL R. OMAN, Professor of Dentistry; D.D.S., Minnesota, 1914

ARMAND OPPENHEIMER, Assistant Clinical Professor of Dentistry; A.B., College of the City of New York, 1926; B.S., Columbia, 1927; D.D.S., 1929

DOUGLAS B. PARKER, Clinical Professor of Oral Surgery; M.D., Long Island College of Medicine, 1912; D.D.S., Pennsylvania, 1914

MAX A. PLEASURE, Associate Clinical Professor of Dentistry; D.D.S., Pennsylvania, 1928; M.S.P.H.,

Columbia, 1941

WILLARD C. RAPPLEYE, Dean, Faculty of Medicine; Vice President in Charge of Medical Affairs; Professor of Medical Economics; A.B., Illinois, 1915; M.D., Harvard, 1918; A.M., Yale, 1922; Sc.D., Trinity (hon.), 1939; Rutgers (hon.), 1949: Med.Sc.D., Women's Medical College of Pennsylvania (hon.), 1950 WILLIAM M. ROGERS, Assistant Professor of Anat-

omy; B.S., Georgia, 1921; Ph.D., Cornell, 1927

WALTER S. ROOT, Professor of Physiology; B.S.,

Wesleyan, 1924; Ph.D., Pennsylvania, 1930 HARRY M. ROSE, John E. Borne Professor of Medical and Surgical Research; A.B., Yale, 1928; M.D., Cornell, 1932

GEORGE ROSEN, Professor of Public Health Education; B.S., College of the City of New York, 1930; M.D., Berlin, 1935; Ph.D., Columbia, 1944; M.P.H., 1947

SOLOMON N. ROSENSTEIN, Professor of Dentistry; B.S., College of the City of New York, 1929; D.D.S.,

Columbia, 1930

LOUIS A. SAPORITO, Assistant Clinical Professor of Dentistry; D.D.S., College of Dental and Oral Sur-

gery of New York, 1922

WILLIAM J. SAVOY, Associate Clinical Professor of Dentistry; B.S., Manhattan, 1931; D.D.S., Columbia, 1935

SAUL SCHLUGER, Associate Clinical Professor of Dentistry; D.D.S., Louisville, 1931

JOSEPH SCHROFF, William Carr Professor of Oral Surgery; B.S., College of the City of New York. 1909; M.D., Columbia, 1920; D.D.S., 1922 BEATRICE C. SEEGAL, Associate Professor of Micro-

biology; A.B., California, 1918; A.M., 1921; M.D., Johns Hopkins, 1924

JOSEPH SERONDE, Assistant Professor of Pathology;

B.S., Yale, 1938; M.D., 1942 HARRY H. SHAPIRO, Assistant Professor of Anat-

omy; D.M.D., Tufts, 1918 HAROLD SHERMAN, Assistant Clinical Professor of Dentistry; B.S., College of the City of New York, 1935; D.D.S., Michigan, 1946

MAURICE E. SHILS, Assistant Professor of Nutrition;

A.B., Johns Hopkins, 1937; Sc.D., 1940 WILLIAM H. SILVERSTEIN, Assistant Clinical Professor of Dentistry; D.D.S., Maryland, 1937

GEORGE K. SMELSER, Associate Professor of Anatomy; A.B., Earlham, 1929; Ph.D., Chicago, 1932
GILBERT, P. SMITH, Professor of Dentistry; D.D.S.,

Minnesota, 1927

HARRY P. SMITH, Delafield Professor of Pathology; A.B., California, 1916; M.S., 1918; M.D., 1921

WILLIAM C. SPRING, DeLamar Professor of Public Health Practice; M.D., Duke University, 1936; M.P.H., Columbia, 1947

LEO STERN, SR., Clinical Professor of Dentistry; D.D.S., New York College of Dentistry, 1912

WELLINGTON B. STEWART, Assistant Professor of Pathology; B.S., Notre Dame, 1942; M.D., Rochester, 1945

FRANCES A. STOLL, Associate Professor of Dental Hygiene; R.D.H., Columbia, 1934; B.S., 1944; A.M., 1945; Ed.D., 1949 LEWIS R. STOWE, Professor of Dentistry; D.D.S.,

Minnesota, 1916

DAVID TANCHESTER, Clinical Professor of Dentistry; D.D.S., New York University, 1921 WILLIAM A. THEMANN, Assistant Clinical Profes-

sor of Dentistry; D.D.S., Columbia, 1927 ARTHUR C. TOTTEN, Professor of

Professor of Dentistry; D.D.S., Pennsylvania, 1926 HARRY B. VAN DYKE, Hosack Professor of Pharma-

cology; B.S., Chicago, 1918; Ph.D., 1921; M.D., Rush, 1923

WILLIAM W. WALCOTT, Associate Professor of Physiology; A.B., Yale, 1933; Ph.D., Columbia, 1944

SHIH-CHUN WANG, Associate Professor of Physiology; B.S., Yenching, 1931; M.D., Peiping Union Medical College, 1935; Ph.D., Northwestern, 1940 EVELYN WITOL, Assistant Clinical Professor of Dentistry; D.M.D., Tufts, 1945 EDWARD V. ZEGARELLI, Associate Professor of

Dentistry; A.B., Columbia, 1934; D.D.S., 1937;

M.S., Chicago, 1942

JACK ALLOY, D.D.S., Instructor in Dentistry NORMAN ALPERT, Ph.D., Instructor in Physiology BERT BALLIN, D.D.S., Assistant in Dentistry CARLISLE C. BASTIAN, D.D.S., Lecturer in Dentis-

JAMES W. BENFIELD, D.D.S., Instructor in Dentis-

¹IGNAZIO F. BOSCARELLI, D.D.S., Instructor in Dentistry

SEBASTIAN A. BRUNO, D.M.D., Assistant in Den-

² On leave 1953-1954.

STANISLAW H. BRZUSTOWICZ, D.D.S., Instructor in Dentistry

BARBARA CARROLL, R.D.H., Instructor in Dental Hygiene

GEORGE B. CROZAT, D.D.S., Lecturer in Dentistry KOURKEN A. DAGLIAN, D.D.S., Instructor in Dentistry

KENNETH C. DEESEN, D.D.S., Instructor in Dentis-

JOSEPH C. DE LISI, D.D.S., Assistant in Dentistry 2ROBERT C. DEVINE, D.D.S., Instructor in Dentistry

¹ On leave 1953-1954 (military service).

JOHN J. DOLCE, D.D.S., Instructor in Dentistry ROBERT DRELICH, D.D.S., Assistant in Anatomy JOSEPH D. EBY, D.D.S., Lecturer in Dentistry SOLON A. ELLISON, D.D.S., Associate in Micro-

biology JOSEPH E. FIASCONARO, D.D.S., Instructor in

Dentistry
ROBERT L. FISHER, D.D.S., Assistant in Dentistry
HERBERT P. FRITZ, D.D.S., Instructor in Dentistry
ROGER G. GERRY, D.M.D., Research Assistant in
Dentistry

HERMAN GLADSTONE, M.D., Instructor in Anat-

BENJAMIN W. GLICK, M.D., Instructor in Anatomy PAUL GOLDHABER, D.D.S., Research Assistant in Dentistry

HENRY M. GOLDMAN, D.M.D., Lecturer in Den-

IDA M. GOLOMB, D.D.S., Instructor in Dentistry

ROSALIE GRECO, B.S., R.D.H., Instructor in Dental Hygiene
AXEL HANSON, Instructor in Dental Technique
STANLEY S. HELLER, D.D.S., Assistant in Dentistry
JOHN D. HOGAN, D.D.S., Instructor in Dentistry

SIDNEY L. HOROWITZ, D.D.S., Research Assistant in Dentistry ELLEN N. HOSIOSKY, D.M.D., D.D.S., Instructor

in Dentistry CHRISTIAN A. HOVDE, A.M., Instructor in Anat-

RUTH K. INNESS, R.D.H., Assistant in Dental Hygiene

JAMES JAY, D.D.S., Instructor in Dentistry JOSEPH E. JOHNSON, D.D.S., Lecturer in Dentistry SOLOMON L. KATZ, D.D.S., Research Assistant in Dentistry

MORRIS KAVELLE, D.D.S., Instructor in Dentistry BERTRAM KLATSKIN, D.D.S., Instructor in Dentistry

AUSTIN H. KUTSCHER, D.D.S., Research Assistant in Dentistry

STANLEY L. LANE, M.D., D.D.S., Instructor in Oral Surgery

JOSEPH M. LEAVITT, D.D.S., Instructor in Dentistry
HENRY P. LEVY, D.D.S., Assistant in Anatomy
EVALD LINDER, Instructor in Dental Technique
JULIUS K. LITTMAN, M.D., Instructor in Anatomy

FRANCIS J. LOUGHLIN, D.D.S., Assistant in Dentistry
JOSEPH LUBAN, D.D.S., Research Assistant in Dentistry

EDWARD S. LUBOJA, D.D.S., Instructor in Dentis-

MÁRTIN LUNIN, D.D.S., Instructor in Oral Pathology
HARRIET G. McCORMICK, Ph.D., Lecturer in Den-

tal Hygiene EDITH I. MAGUIRE, R.D.H., Lecturer in Dental

Hygiene

¹IRWIN D. MANDEL, D.D.S., Instructor in Dentistry
ARTHUR H. MERRITT, D.D.S., Sc.D., Lecturer in
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HENRY MILCH, M.D., Instructor in Anatomy

¹ On leave 1953-1954 (military service).

² On leave 1953-1954.

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FRED ROTHENBERG, D.M.D., D.D.S., Instructor in Dentistry
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GEORGE SCHWENDENER, D.D.S., Iecturer in Dentistry

Dentistry

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D. VINCENT VARALLO, D.D.S., Assistant in Dentistry

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PRESBYTERIAN HOSPITAL DENTAL SERVICE

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Attending Dental Surgeons

HOUGHTON HOLLIDAY CARL R. OMAN Joseph Schroff Gilbert P. Smith

ARTHUR C. TOTTEN

Associate Attending Dental Surgeons

LESTER R. CAHN
IRVIN L. HUNT, JR.
BARNET M. LEVY

Alvin S. Nathan
Solomon N. Rosenstein
William J. Savoy
Edward V. Zegarelli

Assistant Attending Dental Surgeons

Frank E. Beube Jack Budowsky Edward A. Cain Robert E. Herlands LOUIS L. SCHWARTZ
BOAZ SHATTAN
ADOLPH BERGER, Consultant
ALBIN R. SEIDEL, Consultant

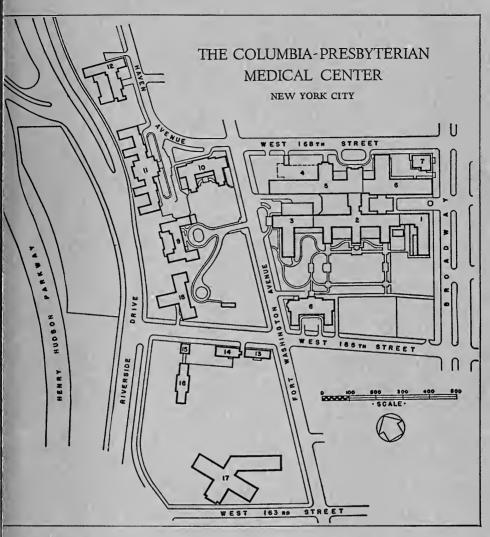
PRESBYTERIAN HOSPITAL ORAL SURGERY SERVICE

MAURICE J. HICKEY, D.M.D., M.D., Assistant Attending Surgeon STANLEY L. LANE, M.D., D.D.S., Assistant Attending Surgeon

¹ On leave 1953-1954 (military service).







- 1. Babies Hospital
- 2. Presbyterian Hospital
 Sloane Hospital
 New York Orthopaedic
 - New York Orthopaedic Hospital
- 3. Harkness Pavilion
- 4. Power plant
- 5. College of Physicians and Surgeons
- 6. Vanderbilt Clinic
 - School of Dental and Oral Surgery
- Washington Heights Health and Teaching Center, New York City Department of Health
 - School of Public Health

- 8. Institute of Ophthalmology
- 9. Maxwell Hall
- 10. Neurological Institute
- 11. New York State Psychiatric Institute and Hospital
- 12. Bard Hall
- 13, 16. Storage
- 14. Shops
- 15. Housing
- 17. Francis Delafield Hospital, New York City Department of Hospitals
- 18. Edward S. Harkness Memorial Hall



KING'S COLLEGE
1754
COLUMBIA COLLEGE
1784
COLUMBIA
UNIVERSITY
IN THE
CITY OF NEW YORK

BICENTENNIAL YEAR 1954

COLUMBIA UNIVERSITY BULLETIN OF INFORMATION

Fifty-fourth Series, No. 26

July 10, 1954

COTY 2 COLUMBIA UNIVERSITY

HEAL ANNOUNCEMENT OF THE

SCHOOL OF DENTAL AND ORAL SURGERY

OF THE

FACULTY OF MEDICINE

1954-1955

COLUMBIA-PRESBYTERIAN MEDICAL CENTER
630 WEST 168TH STREET · NEW YORK 32, N.Y.

Columbia University Bulletin of Information

Fifty-fourth Series, No. 26

July 10, 1954

Issued at Columbia University, Morningside Heights, New York 27, N.Y. weekly from January for forty-six consecutive issues. Reentered as second-class matter August 15, 1952, at the Post Office at New York, N.Y., under the Act of August 24, 1912. Acceptance for mailing at a special rate of postage provided for in Section 1103, Act of October 3, 1917, authorized.

The series includes the Report of the President to the Trustees and the Announcements of the several Colleges and Schools relating to the work of the next year. These are made as accurate as possible, but the right is reserved to make changes in detail as circumstances require. The current number of any of these Announcements will be sent upon written application to the Office of University Admissions, 322 University Hall, Columbia University, New York 27, N.Y. Copies may be obtained in person from the Office of the Secretary, 213 Low Memorial Library.

C. U. P. 5,100-1954

Communications

All communications regarding the School of Dental and Oral Surgery, applications for admission, and appointments for personal interviews should be addressed to the School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N.Y.; telephone: WAdsworth 3-2500.

Announcements

The Announcements of each College or School and of the Summer Session may be obtained without charge by writing to the Office of University Admissions.

Letters requesting more detailed information than is contained in this Announcement and all correspondence regarding admission should be addressed to the Dean, School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N.Y.

> PRINTED FOR THE UNIVERSITY BY COLUMBIA UNIVERSITY PRESS

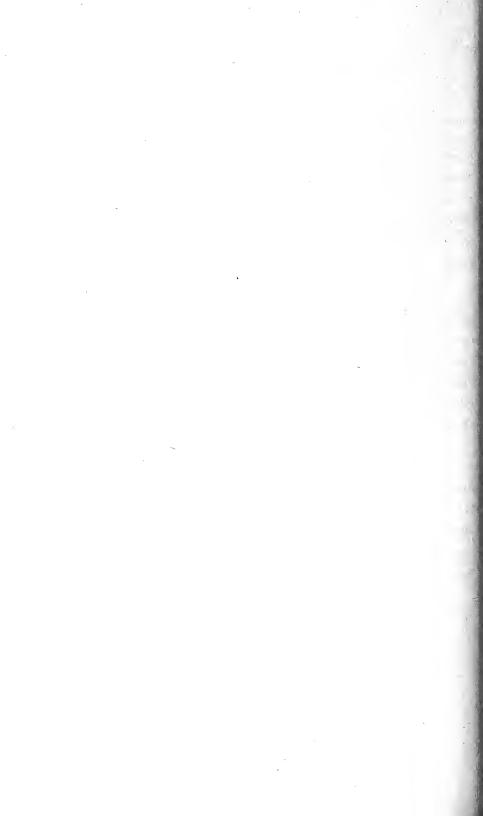
CONDENSED ACADEMIC CALENDAR

1954

September	7	Tuesday, and September 8, Wednesday. Registration, including payment of fees.					
September	13	Monday. Classes begin.					
November	r 2	Tuesday. Election Day. Holiday.					
November	25	Thursday. Thanksgiving Day. Holiday.					
November	27	7 Saturday. End of first trimester.					
November	November 29 Monday. Beginning of second trimester.						
December 20 Monday, through							
		1955					
January	2	Sunday. Christmas Holidays.					
February	12	2 Saturday. Lincoln's Birthday. Not a University Holiday.					
February	ary 22 Tuesday. Washington's Birthday. Holiday.						
February	ary 26 Saturday. End of second trimester.						
February	February 28 Monday. Beginning of third trimester.						
March	March 1 Tuesday. Last day for filing application or renewal of application for all degrees and certificates, except doctoral degrees, to be conferred in June. The privilege of later application may be granted on payment of a late fee.						
April	3	Sunday, through April 10, Sunday. Easter Holidays.					
May	21	Saturday. Last day of classes.					
May	23	Monday, through May 27, Friday. Final examinations.					
May	30	Monday. Memorial Day. Holiday.					

1 Wednesday. Conferring of degrees.

June



FACULTY OF MEDICINE

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MAURICE J. HICKEY, D.M.D., M.D Associate Dean (Dental and Oral Surgery)
Aura E. Severinghaus, Ph.D Associate Dean (Medicine); Secretary
of the Faculty of Medicine
HAROLD W. BROWN, Sc.D., M.D., D.P.H Associate Dean (Public Health)
JAMES E. McCormack, M.D Associate Dean (Graduate Studies)

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Anna A. Berhowsky, B.A., M.A.							1	1ssis	tani	t	to	the	Registrar
THOMAS P. FLEMING, M.S													Librarian

THE SCHOOL OF DENTAL AND ORAL SURGERY

Columbia University was founded in 1754 as King's College by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The Revolutionary War interrupted its active work, but in 1784 it was reopened as Columbia College. In 1912 the title was changed to Columbia University in the City of New York.

From its inception, the program of dental education at Columbia University has been fostered by and associated with the University's School of Medicine. The Faculty of Medicine at its stated meetings of November and December, 1915, recommended to the Trustees that a dental school be established in the University on "University Lines."

The President of the University in his annual report of 1916 informed the Trustees that "during the year a group of men have come forward with a well-supported proposal that there be established in connection with the Medical School, a school for the training of dental surgeons." The President also reported that "the project was carefully formulated and presented to the Medical Faculty and received the formal approval of that Faculty and later of the Trustees."

In May, 1916, the University issued a pamphlet entitled A Dental School on University Lines. In this pamphlet the University stated its intent to establish a school of dentistry in affiliation and coordination with the School of Medicine. The pamphlet's introductory statement outlined the University's policy for dental education which has been consistently followed:

Dentistry and Dental Education are on the threshold of extraordinary development but are unable to take advantage of their opportunities because of the traditional separation of dentistry and medicine. Dentistry has been shown by recent investigation and research to be logically a branch of general medicine.

In the fall of 1917 James N. Jarvie gave a substantial sum to a fund "to found and maintain the proposed dental school of the University, described in the pamphlet entitled *A Dental School on University Lines* issued by Columbia University, May 1916."

In September, 1916, students in dentistry were admitted to courses in Columbia University at the School of Medicine. On March 5, 1917, the Trustees of the University established a school of dentistry as of September 27, 1916, and from date the School became an integral part of the University. On March 1, 1920, the dental building adjacent to the School of Medicine and Vanderbilt Clinic was finished and assigned to the use of this School.

On July 1, 1923, the College of Dental and Oral Surgery of New York (organized in 1905) was merged with the School of Dentistry, and the combined institutions named the School of Dental and Oral Surgery of Columbia University. By this merger Columbia acquired two large buildings, at 302–306 East 35th Street and 309–315 East 34th Street, in which the School was housed up to the time of moving into the Medical Center.

The merging of the schools did not alter the University's policy for dental education. In the 1923–1924 Announcement of the School of Dental and Oral Surgery this policy was reaffirmed by the statement, "It is the purpose of the School of Dental and Oral Surgery to combine in the highest degree practicable a sound knowledge of the fundamentals of medicine with adequate training in the technical procedures of dental science and arts."

In September, 1928, the School was moved to the Columbia University-Presbyterian

Hospital Medical Center, where the dental department of the School occupies three floors. The fundamental science subjects, which are given to both dental and medical students, are taught in the adjoining College of Physicians and Surgeons, the corridors of the two schools being continuous. In adjacent wings, the halls of which are also continuous with those of the School, the wards and outpatient departments of the Presbyterian and associated hospitals are located, thus giving the closest possible contact and association with all branches of health service. The Dental School clinic includes as one of its

functions the dental care of the patients of the Medical Center hospitals.

In order to strengthen the instruction of dental and medical students and to fulfill a further step in the integration of dental education and research with the medical program at the Columbia-Presbyterian Medical Center which was visualized when the Dental School was made a part of the Center in 1928, the Faculties of the two schools were merged July 1, 1945. This Faculty is responsible for the educational programs in medicine, dentistry, public health, and nursing. A committee on dental education, established by University statute, of which a majority is from the Department of Dental and Oral Surgery and of which the Associate Dean for Dental and Oral Surgery is the chairman, initiates recommendations to the Faculty on the qualifications and admission requirements for dental students, the curriculum of instruction, the candidates for the degree of Doctor of Dental Surgery, and other educational matters dealing with dentistry.

The course in dentistry covers four academic years and leads to the degree of Doctor of Dental Surgery. The greater part of the first two years of the curriculum is taken in the fundamental science departments of instruction in the University, which are integral parts of the College of Physicians and Surgeons and the School of Dental and Oral

Surgery.

REQUIREMENTS FOR ADMISSION, PROMOTION AND GRADUATION

ADMISSION TO THE FIRST YEAR OF THE SCHOOL OF DENTAL AND ORAL SURGERY

Application.—It is desirable that candidates make application during the academic year preceding that for which they seek admission. It is not necessary to complete the academic requirements before making application. However, all requirements must be completed before matriculation. Application blanks will be furnished by the Office of the Committee on Admissions of the School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N.Y. Every application should be accompanied by a check or money order for \$5.00, payable to Columbia University, to cover the cost of processing the application. This fee is not returnable.

The minimum requirement for admission to the first-year class is the satisfactory completion of three full years at an acceptable college of arts and sciences, which must include the satisfactory completion of the following courses required by the New York

State Board of Regents:

8	Semester Hours
English composition and literature	6
Physics	6
Biology	6
Chemistry (inorganic)	6
Chemistry (an approved course in organic chemistry)	6

A point or semester hour is the equivalent of one hour of lecture or recitation plus two hours of outside work or three hours of laboratory work per week, per semester. Suitable laboratory work must be included in each of the courses in science.

Inasmuch as an understanding of the biological sciences is based upon the knowledge of the underlying sciences of chemistry, physics, and biology, students are urged, so far as time permits, to take additional courses in quantitative, qualitative, physical, and organic chemistry, physics, comparative anatomy, and other advanced courses in biology, as well as courses in mathematics, German and French, sociology, history, and other subjects of general cultural and scientific value. Courses in fine and industrial arts are also useful.

Owing to the limited number of students who can be accommodated, completion of the requirements for entrance does not guarantee admission. The entire college record of each student is carefully examined by the Committee on Admissions in order that those who are judged most capable of meeting the exacting demands of the course and of the profession of dentistry may be selected. Preference will be given in the selection of students to those who present to the Committee on Admissions evidence of high achievement in selected college courses of special predental value and who, in the opinion of the Committee on Admissions, are most likely to succeed in dentistry, rather than to those who present the largest number of course credits or those who have limited their preparation to the prescribed subjects. Acceptance of a student for admission is based on grounds of character and health as well as on the fulfillment of academic requirements.

An acceptance fee of \$50 is payable within ten days after notification of acceptance

(see page 9).

All applicants will be required to take the Dental Aptitude Tests conducted by the Council on Dental Education at various testing centers throughout the United States and Canada. For further information apply directly to the Division of Aptitude Testing, Council on Dental Education of the American Dental Association, 222 East Superior Street, Chicago 11, Illinois.

COMBINED COURSES

Combined courses with Columbia College.—Upon receiving ninety-four points credit, sixty-four of which must be for work in Columbia College, including all the work prescribed for the degree of Bachelor of Arts in Columbia College, a student may take studies in the first year of the School of Dental and Oral Surgery, provided he can satisfy the stated requirements and is accepted for admission therein, and will receive the degree of Bachelor of Arts from Columbia College upon the satisfactory completion of the year's work. No course may be counted toward a professional degree and at the same time be included among those which go to make up the ninety-four points referred to above. This combined course with Columbia College is being discontinued for students entering Columbia College in September 1954 and thereafter.

Combined courses with Barnard College.—Students from Barnard College may exercise the professional option after the completion of ninety points of academic work, including all grouped work and a major of twenty-eight points unless this number is reduced in individual cases by special permission of the Committee on Instruction of Barnard

College.

Combined courses with the School of General Studies.—Students from the School of General Studies may exercise the professional option after the completion of ninety-four points, including all the courses prescribed for the Bachelor of Science degree, not less than sixty-four of which have been received for work in Columbia University.

Combined courses in dentistry and medicine.—It is usually possible for a graduate of a registered medical school with the degree of Doctor of Medicine to meet the requirements of the School and receive the degree of Doctor of Dental Surgery by the satisfactory completion of a special two-year course, which may include one Summer Session.

ADMISSION OF FOREIGN STUDENTS

The State Department of Education has special requirements with which students who are not citizens of this country must comply. Any foreign student desiring to apply to the School of Dental and Oral Surgery should communicate with the Dean.

REGISTRATION

Before attending University courses, every student must present himself at the Office of the Registrar and file a registration blank giving such information as may be required. The periods set aside for registration in each session are stated in the Academic Calendar at the beginning of this Announcement. Registration at a later date is permitted only with the written permission of the Dean, satisfactory cause for the delay having been shown.

FEES

The University Statutes provide that tuition fees and the University fee are payable semiannually in advance. No reduction is made for late registration. Registration will not be complete until such fees are paid. Checks should be drawn to the order of Columbia University and presented in person or mailed to the Office of the Bursar. Payment of fees after the last day of registration (see the Academic Calendar) imposes automatically the statutory charge of \$3.00 for the privilege. Under the regulations, the privileges of the University are not available to any student until he has completed his registration.

The fees to be paid by students are subject to change at any time at the discretion of

the Trustees.

The following annual fees are prescribed for dental students:

a) University Fee

 For each Winter or Spring Session or any part thereof, for students enrolled for:

One to four points, inclusive \$ 5.00

More than four points to nine points, inclusive 10.00

More than nine points 20.00

2. For registration as engaged in research only, for any period not longer than a Winter or a Spring Session.

b) Tuition Fee

For the course in dentistry for one academic year (or equivalent) in the case of a student enrolled for the full course, payable in two installments

825.00

For students not enrolled for the full course, fees are to be assessed by the Registrar as provided by the University Statutes.

c) Fee for application for a degree

20.00

20.00

d) Privileges

Late registration or late application for a degree or for deficiency or special examinations

3.00

Deficiency or special examinations
 Renewal of application for any degree

3.00

1.00

e) Student Health Service Fee

This fee will be used to pay the annual premiums of the Associated Hospital Service of New York for hospital insurance and to pay part of the cost of the student health service.

For all students, per academic year

25.00

f) Case rental

For Sophomores, Juniors, and Seniors, rental for one instrument case, for one academic year, payable in two installments

5.00

g) Rebates

- r. The University fee, the student health service fee, and the fee for application for any degree shall not be subject to rebate.
- 2. No tuition fee shall be returned for any course which the student may for any reason discontinue. Exception to this rule may be made only in cases of total withdrawal from the University, when a partial return of fees may be authorized by the Registrar.
- 3. When a rebate is allowed for the discontinuance of courses or withdrawal from the University, such rebate will be reckoned from the day upon which the Registrar receives notice from the student.

h) Undue breakage

While no deposit is required of students to cover laboratory material and ordinary breakage, any unusual amount of breakage will be charged.

Acceptance fee.—Within ten days after an applicant has been notified that his application has been accepted, he must notify the Dean that he intends to matriculate and accompany his communication with a check or money order for \$50, payable to Columbia University. This acceptance fee will belong to the University and if the applicant does not register at the School for the specific session, it will not be returned. If he registers at the School at the next enrollment of entering students, the amount of the acceptance fee will be deducted from his tuition fees for that session.

Fee for processing of application.—A fee of \$5.00 is charged to every student who applies for admission to the School of Dental and Oral Surgery or the School of Medicine. This fee covers the cost of processing the application.

Fees for repeated courses.—Students obliged to repeat the work for any year are required to pay the full tuition fee.

DENTAL EQUIPMENT

Instruments and supplies.—Each student is required to supply himself with instruments as specified in the official instrument list. The purchase from the University of instruments in original package outfits has been made compulsory, and unauthorized or incomplete equipment will not be accepted by the instructors. All technique material and

regular supplies must be purchased from the University upon order from the instructor. The students will not be allowed to purchase more than is required to complete a case. The quantity and quality are selected with a view to the best possible results and conservation of the student's best interests.

Microscopes.—All students entering the School of Dental and Oral Surgery are required to provide themselves with microscopes of a satisfactory type. A microscope of standard make fitted with the following attachments will fill the requirements:

- a. Triple nosepiece.
- b. Abbe or variable focus condenser.
- c. 10x and 6x oculars.
- d. 16 mm. and 4 mm. objectives.
- e. Oil immersion lens.

Lockers.—Each student will be assigned a locker on entering and will be required to use a combination lock as prescribed by the School.

ESTIMATED EXPENSES

An itemized estimate of the average expenses of a full-time student for an academic year in the School of Dental and Oral Surgery exclusive of travel, clothing, amusements, charity, organizations, and sundries is given below. These items are, of course, variable but should not be overlooked in estimating the total expense. The tuition, room, board, books, and laundry figures are based upon the rates which prevailed during 1953–1954 and can be accepted as applicable in general for the year 1954–1955 unless national economic changes require their alteration.

	Average	Minimum
Tuition and University fees	\$ 865	\$ 865
Miscellaneous fees	35	35
Room	330	186
Board	600	500
Books	150	115
Instruments (see below)	375	350
Laundry	75	35
	\$2,430	\$2,086

These estimates are subject to correction as the basic prices of supplies and instruments change. Instruments are to be paid for at the opening of the academic year. The cost of books will vary, depending upon the choice made from the selection offered.

STUDENTS

Each person whose registration has been completed will be considered a student of the University during the session for which he is registered unless his connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the specific authorization of the dean or director of the school or college of the University in which he is registered.

Students prevented by conscientious scruples from complying with academic require-

ments which may be fulfilled only upon days set apart by their church for religious observance should make application to the Dean for an equitable solution.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University, which is free to cancel his registration at any time on any grounds which it deems advisable. The disciplinary authority of the University is vested in the President in such cases as he deems proper, and, subject to the reserved power of the President, in the dean of each faculty and the director of the work of each administrative board.

WITHDRAWAL

An honorable discharge will always be granted to any student in good academic standing and not subject to discipline who may desire to withdraw from the University; but no student under the age of twenty-one years shall be entitled to a discharge without the assent of his parent or guardian furnished in writing to the proper dean. Students withdrawing must notify the Registrar immediately.

The Dean of the School may, for reasons of weight, grant a leave of absence to a stu-

dent in good standing.

REQUIREMENTS FOR PROMOTION

a) A student may be admitted to the second, third, or fourth year of the dental curriculum only upon the recommendation of the class officers of instruction under whom he has studied during the preceding year.

b) The School of Dental and Oral Surgery reserves the right to refuse readmission or promotion to any student who is believed for any reason to be unsuited to the conditions

of study in the school.

Students are classified for readmission or promotion under the following headings:

- 1. Recommended for advancement.
- 2. Recommended for readmission to the same class.
- 3. Recommended neither for advancement nor for readmission to the same class:
 - (a) Because of failure.
 - (b) Because they fall under paragraph 2 of requirements for promotion.

GRADING OF STUDENTS

The following grade equivalents are used: A, excellent; B, good; C, fair; F, failure.

REQUIREMENTS FOR GRADUATION

In addition to complying with the requirements for admission and to completing the required work of the curriculum, each candidate for the degree of Doctor of Dental Surgery must present satisfactory evidence as required by law of good moral character and of having attained the age of twenty-one years. If the candidate shall have been admitted to advanced standing, he must have spent not less than four academic years or their

equivalent in approved medical or dental colleges in the study of the subjects making up the curriculum of the School of Dental and Oral Surgery.

GRADUATION

Commencement occurs in June, at which time all recipients of degrees awarded during the academic year are expected to attend the exercises. Diplomas are issued in June or at various times during the year.

No degree will be granted to a student who has not registered for and attended at the University courses of instruction equivalent to at least one academic year of full-time

work.

An application for a degree, other than the several doctoral degrees, terminates at the next regular time for the issuance of diplomas subsequent to the date of filing; but under conditions prescribed by the respective faculties it may be subject to renewal for a fee of \$1.00 each time that a candidate chooses to come up for consideration, within a period not to exceed three years. Thereafter, with the filing of a second application the regular fee of \$20 is again payable.

Dates for the filing of applications are given in the Academic Calendar at the beginning

of this announcement.

COURSES FOR DENTAL HYGIENISTS

In September, 1947, the period of training for dental hygienists was increased from one to two academic years. On October 21, 1947, the University Council approved the establishment of the degree of Bachelor of Science to be conferred upon students who, having been admitted on the basis of two years of approved college study covering not less than sixty points (including satisfactory courses in English, biological science or chemistry, and sociology or psychology), complete the course of instruction in the field of dental hygiene, consisting of two academic years of study, prescribed by the Faculty of Medicine.

Candidates for admission must be women between the ages of eighteen and thirty-five years and must present a record of good health. All candidates are required to make formal application in writing on blanks supplied by the School. After the application has been submitted, the academic record of the candidate should be sent to the School at the request of the candidate. Whenever possible, a personal interview is desirable before the

candidate is accepted.

Applicants must satisfy the following requirements: Two years of sixty semester hours of credit in liberal arts from a college or university approved by Columbia University. The following subjects are required:

	Semester Hours
English	6
Biological science or chemistry	3
Sociology or psychology	3

Upon the successful completion of the two-year curriculum in dental hygiene, the Bachelor of Science degree will be conferred.

Applicants who lack not more than eight credits of the sixty credits required for admission will be considered for matriculation on the condition that the eight credits be earned during the Summer Session between the Junior and Senior years.

For further information address the Director, Courses for Dental Hygienists, 630 West

168th Street, New York 32, N.Y.

SHORT COURSES FOR GRADUATES IN DENTISTRY

The School of Dental and Oral Surgery arranges courses in the various divisions of dentistry to meet the needs of groups of practitioners. In 1954–1955 short refresher courses will be offered in various subjects.

Admission requirements include graduation from an approved dental school and licensure to practice dentistry within the United States or a foreign country. There is no degree or certificate offered for these courses. For further information see the Announcement of Postgraduate Courses for Dentists, which may be obtained from the Dean, School of Dental and Oral Surgery.

CERTIFICATE OF TRAINING

The School of Dental and Oral Surgery is authorized to grant certificates of training in special branches of dentistry. The course of study for the certificate of training includes special work in the clinical and basic science branches of dentistry approved by the Dean. At present, an organized sixteen-month course is offered to qualified graduates in dentistry who wish to prepare for specialization in orthodontics. Advanced courses leading to certificates of training are also offered in oral diagnosis and roentgenology, oral surgery, pedodontics, and periodontology. For further information see the Announcement of Postgraduate Courses for Dentists, which may be obtained from the Dean, School of Dental and Oral Surgery.

GRADUATE COURSES IN THE BASIC SCIENCES

A limited number of fellowships are available to graduates of dental schools acceptable to Columbia University. These fellowships offer opportunity for study in the following basic science departments of the University: anatomy, biochemistry, microbiology, pathology, pharmacology, and physiology. For further information regarding qualifications and stipend, address the Dean, School of Dental and Oral Surgery.

COURSES LEADING TO THE DEGREE OF DOCTOR OF PHILOSOPHY

Graduation from accredited dental schools under the present curriculum of four academic years preceded by three acceptable predental college years is considered by the Graduate Faculties of Columbia University as meeting the general requirement for admission. There are additional admission requirements in certain departments. A student who is accepted by the Graduate Faculties as a candidate for the degree of Doctor of Philosophy and who holds the Doctor of Dental Surgery degree from Columbia University may, with the consent of the Dean, offer the work done for the professional degree in lieu of thirty points toward the fulfillment of the residence requirement for the degree. For further information see the Announcement of the Faculty of Pure Science, which may be obtained by writing to the Office of University Admissions, 322 University Hall, Columbia University, New York 27, N. Y.

PUBLIC HEALTH FOR DENTISTS

A one-year course leading to a Master of Public Health degree is offered by the School of Public Health. The course is open to graduate dentists. For further information regarding course content, registration, and fees, apply to the Director, School of Public Health, 600 West 168th Street, New York 32, N.Y.

LICENSE TO PRACTICE DENTISTRY IN NEW YORK STATE

Those desiring to take the New York State Board examinations are advised to address the Bureau of Professional Education, New York State Department of Education, 23 South Pearl St., Albany 7, N.Y. All applications for admission to the examinations should

be completed at least thirty days before the examinations begin.

The State Department of Education will admit conditionally to the examination in anatomy, physiology and hygiene, chemistry and metallurgy, and histology, applicants over nineteen years of age who are of good character, who are citizens of the United States or have declared their intention of becoming citizens in accordance with the law, who have completed the prescribed preliminary education requirement, and who are certified as having successfully completed the first two years of the required course in a registered dental school.

PLAN OF INSTRUCTION

The curriculum is arranged with the object of providing the student with the necessary opportunities for acquiring a knowledge of the fundamental sciences in relation to dentistry and the techniques of approach in dental problems. Beginning in the first two academic years with a study of the basic sciences, particularly anatomy, biochemistry, microbiology, pathology, pharmacology, and physiology, the student prepares himself for an understanding of the problems to be encountered in his later clinical work. The third and fourth academic years are devoted to mastering the methods of diagnosis and treatment of patients and acquiring a knowledge of disease patterns and the arts and skills required in preventing, curing, or controlling them.

Throughout the entire course an effort is made to interrelate the different phases of the dental learning by means of "correlative" and "combined" clinics in which the various departments and divisions cooperate in the discussion and demonstration of the same and related problems and thus treat the study of dentistry as a unit rather than a series of isolated branches of learning. At the same time an attempt is made to individualize instruction and to place responsibility as far as practicable upon the student for his own training. This is accomplished by means of the division of classes into small sections, conferences, and the comprehensive case method of instruction.

CURRICULUM

1954-1955

Subjects*	Lecture or Seminar Hours	Lab. o r Clinic Hours	Total Hours
FIRST YEAR			
Anatomy			
Embryology 152 F	18		18
Gross 151 FS	50	222	272
Microscopic 150 FS	42	126	168
Neuro 153 T	30	36	66
Oral 101 ST	19	82	101
Biochemistry 150 ST	38	117	155
Histology, Oral 115 ST	25	52	77
Physiology 150 FS	56	152	208
Theory and Practice	1		
Dental History 287 T	10		10
			1,075

^{*} Letter following course number designates trimester: $F \equiv$ first, $S \equiv$ second, and $T \equiv$ third.

Subjects*	Lecture or Seminar Hours	Lab. or Clinic Hours	Total Hours
SECOND YEAR			
Crown and Bridge 105 ST	20	184	204
Dental Materials 126 FS	10	56	66
Microbiology 151 F and 152 F	43	99	142
Operative Dentistry 131 FST	20	187	207
Pathology 150 FS	54	141	195
Periodontology 151 T	10	44	54 .
Pharmacology 150 ST	55	33	88
Prosthetic Dentistry 157 FST	20	198	218
Psychiatry 150 S	11		11
Surgery, Principles 168 ST	10		10
Surgery, Oral 270A ST	10		10
Theory and Practice Therapeutics 286 T	10		10
incrapeuties 200 i			
THIRD YEAR			1,215
Anatomy, Maxillofacial 252 S	10		10
Crown and Bridge	10		10
Technique 205 F		96	96
Clinic 206 ST	10	114	124
Applied Occlusal Dynamics 212 T		30	30
Diagnosis 212 FST	30	25	55
Operative Dentistry 233 FST	10	276	286
Orthodontics 241 F	20	60	8o
Pathology, Oral 246 FS	20	60	8o
Periodontology 251 S		30	30
Practice of Medicine 278 ST	40	22	62
Prosthetic Dentistry 260 FST and 261 FST Radiology 267 F	20	177	197
Surgery, Oral 270B F	10	15	25
surgery, oral 2705 1	10	20	30
FOURTH YEAR			1,105
Crown and Bridge 210 FST and 211 FST	10	165	175
Diagnosis 213 F		25	25
Diagnosis Seminar 214 S	-	30	30
Diagnosis 215 T (continuation of 214)	10	J	10
Orthodontics 242 FST	İ	30	30
Operative Dentistry 234 FST	20	305	325
Pedodontics 202 FST	10	87	97
Periodontology 252 FS and 253 FS	20	30	50
Prosthetic Dentistry 263 FST and 264 FST	10	165	175
Public Health 222 S	20		20
Surgery Seminar 27 / T	40	60	100
Surgical Prosthesis 265 T	10		10
Surgical Prosthesis 265 T Theory and Practice		30	30
Clinical Oral Physiology 283 F			
Ethics, Jurisprudence and Practice Ad-	10	ĺ	10
ministration 281 FST	20		20
Comprehensive 285 T	30		30
-			1,117

^{*} Letter following course number designates trimester: F = first, S = second, and T = third.

COURSES OF INSTRUCTION

For purposes of instruction the work of each academic year is scheduled in three sessions of eleven weeks each, which are designated as First, Second, and Third Trimesters.

For a detailed statement of the content of each course, the student is referred to the departmental statements which follow.

The outline on pages 15 and 16 shows the work required of a candidate for the degree of Doctor of Dental Surgery. The University reserves the right to make such changes in the program of studies at any time as experience may prove desirable.

ANATOMY

Anatomy 101—Oral anatomy. Freshman year.

Lectures on gross anatomy of the teeth and related tissues. Laboratory reproduction of individual teeth in wax. Setting up teeth in occlusion. Restoring anatomy of carious teeth in wax and macroscopic study of structural parts of teeth.

Anatomy 115—Oral histology and embryology. Freshman year.

Lectures and laboratory work on growth and development of the jaws and face; microscopic anatomy of the teeth and surrounding and related tissues of the oral cavity. Application of this knowledge to technical dentistry.

Anatomy 150-Microscopic anatomy. Freshman year.

Lectures, conferences, and laboratory.

This course is the same as Anatomy 101F in the Medical School.

Anatomy 151—Gross anatomy. Freshman year.

Lectures, conferences, and laboratory.

Anatomy 152—Embryology. Freshman year.

Lectures and demonstration dealing with the dynamics of vertebrate development, with particular reference to mammals and man.

Anatomy 153—Neuroanatomy. Freshman year.

Lectures and demonstrations on the gross anatomy, structure, and functions of the central nervous system. This course is equivalent to *Anatomy 106S* in the Medical School.

Anatomy 252—Maxillofacial anatomy. Junior year.

Lectures and demonstrations. A review course with special application to the problems of the major fields of dentistry.

BIOCHEMISTRY

Biochemistry 150-Introductory biochemistry. Freshman year.

Lectures and laboratory. A study of the chemistry of life processes with special reference to the animal organism.

DENTAL MATERIALS

Dental Materials 126-Physical properties of dental materials. Sophomore year.

Lectures and laboratory on the physical and chemical properties of the metals and other materials used in dentistry, with clinical applications.

DIAGNOSIS

Diagnosis 212—Dental diagnosis lectures and clinic. Junior year.

Lectures and clinical practice in diagnostic procedures, comprehensive diagnosis, pulp symptomatology, radiographic interpretation, and diagnosis of lesions and diseases of the oral cavity.

Diagnosis 213-Dental diagnosis clinic. Senior year.

Continuation of clinic of Diagnosis 212.

Diagnosis 214—Diagnosis seminar. Senior year.

Discussion and differential diagnosis of diseases of the oral cavity.

Diagnosis 215—Diagnosis seminar. Senior year.

Continuation of Diagnosis 214.

MEDICINE

Medicine 278—General survey of medicine. Junior year.

Lectures and conferences covering phases of general medicine; also clinics in which patients are studied for conspicuous manifestations of systemic conditions and their significance.

MICROBIOLOGY

Microbiology 151—General medical microbiology and immunology. Sophomore year.

Lectures, conferences, and laboratory.

Microbiology 152—Principles of microbiology, immunology, and epidemiology. Sophomore year.

This course is identical with *Microbiology 105F* in the Medical School except that lectures on the mouth bacteria are substituted for several of those of the medical series.

OPERATIVE DENTISTRY

Operative Dentistry 131-Elements of operative dentistry. Sophomore year.

Lectures on the fundamentals of operative dentistry, including the etiology of dental caries and the biological approach to the technical procedures in the filing of teeth.

Operative Dentistry 233—Operative clinical practice. Junior year.

Introduction to clinical practice. Lectures on the application of operative fundamentals to clinical practice. Clinical practice and demonstrations.

Operative Dentistry 234—Advanced clinical practice. Senior year.

A continuation in lectures and clinic of Operative Dentistry 233 with the consideration of special problems in operative practice, including endodontia.

ORTHODONTICS

Orthodontics 241—Principles of orthodontics. Junior year.

Lectures and laboratory. Orthodontic fundamentals with special emphasis on prevention of malocclusion in orthodontics by the early recognition and correction of the predisposing factors. Laboratory time is devoted to the designing and constructing of removable appliances used as space maintainers and habit breakers and to correcting tooth alignment in preparation for restorative dentistry and treatment of periodontal conditions. Clinical practice in the use of appliances constructed in the laboratory.

Orthodontics 242—Orthodontic clinic. Senior year.

Clinical orthodontics.

PATHOLOGY

Pathology 150—General and special pathology. Sophomore year.

A study of important pathological conditions, demonstrated by museum specimens and a very complete series of histological preparations.

Pathology 246-Oral pathology. Junior year.

Lectures, conferences, and laboratory work on the diseases of the jaws, mouth, and teeth.

Pathology 247—Oral pathology seminar. Senior year. Elective.

Conferences on the clinical application of oral pathology.

PEDODONTICS

Pedodontics 202-Pedodontics lectures and clinic. Senior year.

Lectures and conferences on operative dental procedures for children, management of child dental patients, and application of present knowledge of dental development and preventive dentistry.

PERIODONTOLOGY

Periodontology 151—Periodontia clinic. Sophomore year.

Lectures and clinics on dental prophylactic technique and early disturbances of the periodontium.

Periodontology 251-Periodontia clinic. Junior year.

Lectures and clinics in the diagnosis and treatment of periodontal diseases.

Periodontology 252-Periodontology lectures. Senior year.

Lectures and conferences on the theory and practice of periodontology and periodontal histopathology.

Periodontology 253—Periodontia clinic. Senior year.

Work in clinics in the diagnosis and treatment of advanced periodontal diseases.

PHARMACOLOGY

Pharmacology 150—Pharmacology. Sophomore year.

Lectures, conferences, and laboratory. In this course the pharmacological action of drugs on man and lower animals is studied.

PHYSIOLOGY

Physiology 150-Mammalian physiology. Freshman year.

Lectures, conferences, and laboratory.

PROSTHETIC DENTISTRY

Prosthetics 105-Crown and bridge lectures and technique. Sophomore year.

Lectures on the technical procedures in crown and bridgework, with practical application, and the construction of bridges and crowns on technique models.

Prosthetics 157—Prosthetic lectures and technique. Sophomore year.

Lectures and technical procedures in full and partial denture construction.

Prosthetics 205—Crown and bridge lectures and technique. Junior year.

Lectures on the clinical procedures in crown and bridgework.

Prosthetics 206—Crown and bridge clinic. Junior year.

Clinical construction of elementary crown and bridgework.

Prosthetics 210—Crown and bridge lectures. Senior year.

Lectures and conferences on various types of bridgework.

Prosthetics 211-Crown and bridge clinic. Senior year.

Clinical construction of crown and bridgework.

Prosthetics 212-Applied occlusal dynamics. Junior year.

Lectures, demonstrations, and technique stressing the relationship of occlusal deformities, both natural and acquired, to oral physiology.

Prosthetics 260—Prosthetic lectures. Junior year.

Examination, classification, application of anatomical considerations, and clinical procedure in full and partial denture construction.

Prosthetics 261—Prosthetic clinic. Junior year.

Clinical construction of full and partial dentures.

Prosthetics 263—Prosthetic clinic. Senior year.

Clinical construction of full and partial dentures.

Prosthetics 264—Prosthetic lectures. Senior year.

A series of lectures on clinical considerations in partial denture diagnosis, design, and construction.

Prosthetics 265—Surgical prosthesis. Senior year.

Lectures and technical procedures in maxillofacial and surgical prosthesis.

PSYCHIATRY

Psychiatry 150—Psychiatry for the dentist. Sophomore year.

Lectures on mental hygiene and general principles involved in the field of psychiatry. The development and organization of the personality. The effects of emotional problems, in the development of psychological symptoms, and psychosomatic disorders. General considerations in psychotherapy.

PUBLIC HEALTH

Public Health 222—Principles of public health. Senior year.

Survey course in the theory and practice of preventive medicine, dentistry, and public health. Fundamental principles of administration, statistics, epidemiology, industrial hygiene, and sanitation. The principles and problems of dental public health practice are emphasized.

RADIOLOGY

Radiology 267—Oral radiology practice. Junior year.

Lectures, readings, and discussions on topics relative to oral radiology. Practice in exposing, processing, and mounting dental radiographs.

SURGERY

Surgery 168—Principles of surgery. Sophomore year.

Lectures, seminars, and basic principles of general surgery.

Surgery 270A—Oral surgery. Sophomore year.

Lectures and seminars on local anesthesia and removal of teeth.

Surgery 270B—Oral surgery. Junior year.

Demonstrations, lectures, and clinical practice in local anesthesia and the removal of teeth.

Surgery 272—Oral surgery. Senior year.

Lectures and conferences on oral and maxillofacial surgery and general anesthesia.

Clinical practice in local anesthesia and the removal of teeth. Clinical demonstrations in the diagnosis and operative procedures in the treatment of diseases, injuries, and malformation about the face, jaws, and oral cavity.

Surgery 274—Oral surgery seminar. Senior year. Required.

Lectures and seminars in diagnosis and treatment-planning in the field of oral surgery. Case presentation.

THEORY AND PRACTICE OF DENTISTRY

Theory and Practice 281—Dental ethics, jurisprudence, and practice administration. Senior year.

Lecture and conference course on dental ethics, jurisprudence, economics, office conduct, and practice management.

Theory and Practice 283—Clinical oral physiology. Senior year.

The physiology of the masticatory system and its relation to dental practice is studied through lectures, demonstrations, and clinical conferences.

Theory and Practice 285—Comprehensive case. Senior year.

Each student is assigned a case for which he performs all the dental services: taking of X-ray negatives, treatment-planning, surgery, and reparative and restorative procedures. The services are carried out in the various clinical divisions. The oral examination accompanying the inspection of the completed case aims to correlate the teaching of the entire course.

Theory and Practice 286—Therapeutics. Sophomore year.

Lectures and conferences on drugs and other therapeutic agents used in dentistry.

Theory and Practice 287—Dental history. Freshman year.

Lectures and conferences on the development of the scientific and technical principles of modern dentistry.

TEXTBOOKS

The following list includes most of the books normally used. As a rule, only the latest editions of the textbooks should be purchased. Students are warned against buying any books until specifically advised by the departments concerned.

Anatomy: Gross anatomy: One of the following three: Gray's Anatomy; Cunningham, Textbook of Anatomy; or Morris, Human Anatomy; one of the following three dictionaries: Stedman, Gould, or Dorland's American; Cunningham, Manual of Practical Anatomy, Vols. II and III; one of the following four: Grant, Atlas of Anatomy; Truex and Kellner, Detailed Atlas of the Head and Neck; Spalteholz, Hand Atlas of Human Anatomy; or Anson, Atlas of Human Anatomy.

MAXILLOFACIAL ANATOMY: Shapiro, Applied Anatomy of the Head and Neck (1954 ed.)

EMBRYOLOGY: One of the following three: Arey, Developmental Anatomy; Hamilton, Human Embryology; or Patten, Human Embryology.

MICROSCOPIC ANATOMY: Bailey, Textbook of Histology (13th ed.); mimeographed laboratory manual.

NEUROANATOMY: Strong and Elwyn, Human Neuroanatomy; mimeographed laboratory manual.

ORAL HISTOLOGY AND EMBRYOLOGY: Orban, Oral Histology and Embryology; Diamond, Dental Anatomy.

BIOCHEMISTRY: Harrow and Mazur, Textbook of Biochemistry (6th ed.); Karshan, Laboratory Manual of Biochemistry for Dental Students.

DENTAL ETHICS, JURISPRUDENCE, AND PRACTICE ADMINISTRATION: Regan, The Doctor, the Patient and the Law.

Dental Therapeutics: Council on Therapeutics, American Dental Association, Accepted Dental Remedies; McGehee and Green, Pharmacology and Pharmacotherapeutics for Dentists.

DIAGNOSIS: Thoma, Oral Pathology (3d ed.).

MEDICINE: One of the following three: Yater, Fundamentals of Internal Medicine (3d rev. ed.); Comroe, Collins, and Crane, Internal Medicine in Dental Practice (4th ed.); or Cecil and Loeb, Textbook of Medicine (8th ed.).

Microbiology: Laboratory Manual in Microbiology and Immunology; Smith and Conant, Zinsser's Textbook of Bacteriology (10th ed.).

OPERATIVE DENTISTRY: Black, Operative Dentistry, Vols. II and III; Operative Dentistry Syllabus; Grossman, Root Canal Therapy.

Oral Pathology: Thoma, Oral Pathology (3d ed.); or Kronfeld, Histopathology of the Teeth (3d ed.).

ORTHODONTICS: Salzmann, Principles of Orthodontics.

Pathology: One of the following four: Boyd, Textbook of Pathology; Karsner, Textbook of Pathology; Moore, Textbook of Pathology; or Anderson, Pathology.

PEDODONTICS: McBride, Juvenile Dentistry (5th ed.).

Periodontology: Beube, Periodontology; and Goldman, Periodontia.

PHARMACOLOGY: Goodman and Gilman, Pharmacological Basis of Therapeutics (1954).

Physiology: Bard, Macleods Physiology in Modern Medicine (10th ed.).

PROSTHETIC DENTISTRY: Skinner, Science of Dental Materials; Swenson, Complete Dentures; Tylman, Crown and Bridge Prosthesis; United States Government Printing Office, Physical Properties of Dental Materials; Young et al., Syllabus on Complete Dentures.

PSYCHIATRY: Strecker, Fundamentals of Psychiatry (5th ed.).

RADIOLOGY: McCall and Wald, Clinical Dental Roentgenology (3d ed.).

Surgery: Berger, Principles and Technique of Oral Surgery; Berger, Principles and Technique of the Removal of Teeth; Parker, Synopsis of Traumatic Injuries of the Face and Jaw.

SURGICAL PROSTHESIS: Beder, Surgical and Maxillofacial Prosthesis.

STUDENT ORGANIZATIONS

REGISTRATION OF STUDENT ORGANIZATIONS

Blanks for the registration of student organizations, other than those for which the responsibility is assumed by a faculty or department of instruction, may be obtained at the room assignment desk in the Office of the Registrar, 315 University Hall.

Such student organizations come under the jurisdiction of the Committee on Student Organizations of the University Council and may be granted the privileges of the use of names in which the name of the University is embodied or suggested and the use of University rooms or grounds for meetings and bulletin boards for announcements, only if they have filed their registration blanks, furnishing the committee with lists of officers and other executive members, statements of purposes, copies of constitutions and bylaws, and information concerning the nature of any affiliation or connection with non-University organizations.

OMICRON KAPPA UPSILON

Epsilon Epsilon chapter of Omicron Kappa Upsilon, national honorary fraternity, was chartered in the School of Dental and Oral Surgery in 1934. The purpose of this organization is to recognize and honor a maximum of 12 percent of the members of the graduating Senior class, on the basis of scholarship, character, and possession of potential qualities for future professional growth and attainments.

THE WILLIAM JARVIE SOCIETY

The William Jarvie Society for Dental Research is a nonsecret, dental honor society, membership in which is based on scholarship and interest in dental research, and to which Sophomores, Juniors, and Seniors are eligible. The society was organized in the School of Dental and Oral Surgery in 1920 and named after Dr. William Jarvie because of his wide interest in the promotion of dental research. The society aims to promote the spirit of research among the students.

FACILITIES

LIBRARY

The Medical Library occupies part of the three lower floors in the College of Physicians and Surgeons. It provides current literature (both books and journals) for faculty and students, and it aids in research through its own collections of current and historical works and through its unique bibliographic service.

The Library contains approximately two hundred thousand volumes of books and journals, some five thousand pamphlets, and about two thousand lantern slides on the history of medicine. More than twenty-three hundred periodicals are received regularly. A professional library staff is available to aid students, faculty, and research workers in the Schools of Medicine, Dentistry, Nursing, Public Health, and the hospitals of the Medical Center.

The libraries on Morningside Heights, containing more than two million volumes, are open to all students of dentistry. The main collection is housed in Butler Library; special and departmental collections are located in various other buildings on the campus. They

include collections on biology, chemistry, physics, psychology, sociology, and other subjects related to dentistry and supplement the special collections available in the Medical Library. Books may be borrowed for home use.

Leaflets describing the collections and services of the University Libraries are available in any of the library reading rooms. The Medical Library and all other libraries post

their hours of opening.

UNIVERSITY PRIVILEGES

All students enrolled in the Dental School enjoy the privileges and facilities of the University campus, including access to the University libraries, gymnasium, and other activities.

University gymnasium.—The gymnasium is situated on Morningside Heights and is open daily, except Sundays and holidays. Students of the School of Dental and Oral Surgery may enjoy its privileges and have the use of the gymnasium, baths, and private lockers. A service charge for physical education, amounting to one dollar (\$1.00) per session (Winter, Spring, or Summer), is charged each student using the facilities of the University gymnasium without formal registration in physical education courses. In addition a deposit must be made of two dollars (\$2.00) for a lock, locker, and towel.

STUDENT HEALTH SERVICE

The Student Health Service is located in Room 220, 2nd Floor, Vanderbilt Clinic. Daily office hours are held for sick students. Emergency treatment after 5:00 p.m. and on week ends may be obtained in Admitting Emergency, Vanderbilt Clinic. Students, sick at home and living within the immediate vicinity of the Medical Center, may contact the Physician-in-Charge of the Health Service. Students requiring hospitalization will be taken care of either in the wards of the Medical Center or elsewhere under a hospitalization insurance policy.

RELIGIOUS LIFE

The life of the University community finds religious expression through St. Paul's Chapel and Earl Hall and through the ministry of the Chaplain and those associated with him in his work. The Chaplain of the University is assisted by three religious counselors: the Counselor to Protestant Students, the Counselor to Roman Catholic students, and the Counselor to Jewish students.

Daily services are held in the Chapel, and students are urged to familiarize themselves

with the schedules, which are conveniently posted.

There are a number of student religious organizations to which the Chaplain and counselors serve as advisers and with which students are cordially urged to affiliate themselves.

The Chaplain and the counselors are especially eager to establish warm personal relations with students and to meet them in consultation, at the Chapel or in their offices in Earl Hall.

UNIVERSITY RESIDENCE HALLS

Residence halls announcements and application blanks for rooms may be obtained (for men) from the Men's Residence Halls Office, 125 Livingston Hall, Columbia University, New York 27, N.Y., or (for women) from the Johnson Hall Office, 411 West 116th

Street, New York 27. The advance reservation deposit is payable upon receipt of room assignment. Checks must be made payable to Columbia University.

KING'S CROWN HOTEL

The King's Crown Hotel, 420 West 116th Street, near the campus, is owned by the University. It provides accommodations at reasonable rates, available for relatives and guests of members of the University community.

INTERNATIONAL HOUSE

International House, while not a University residence hall, is primarily a residence for students at Columbia University and other colleges and universities in New York City. It offers comfortable accommodations at reasonable rates. For further information, write to International House, 500 Riverside Drive, New York 27, N.Y.

MEDICAL CENTER BOOKSTORE

The Medical Center Bookstore, located on the second floor of the College of Physicians and Surgeons, is maintained for the convenience of the students and staff of the Medical Center schools and hospitals. The store carries a full stock of textbooks and all other student supplies. Substantial savings are effected whenever the rules of manufacturers and publishers permit. The store is open on weekdays from 8:45 A.M. to 5:30 P.M.; Saturdays, 8:45 A.M. to 1:30 P.M.

FELLOWSHIPS, SCHOLARSHIPS, AND PRIZES

Three Ellis Fellowships are awarded annually to qualified graduates of any of the colleges of recognized rank in the state of Vermont. The holders of these fellowships may pursue resident graduate studies under any one of the graduate schools maintained by the University and are eligible for reappointment for no more than two additional years, with the proviso that a holder of the fellowship who is a student in medicine may be eligible for reappointment for no more than three additional years. The annual stipend is \$1,500. Applications should be submitted on or before February 20 on blanks to be filed with the Office of University Admissions.

See also "Graduate Courses in the Basic Sciences" on page 13.

The Van Woert Scholarship Fund was established by the alumni of the School of Dental and Oral Surgery in 1940. The award is given annually to a Senior student in the dental school who stands high in scholastic attainments, in personal character, and in potentiality of being a credit to Columbia University and the dental profession.

A prize known as the Ella Maria Ewell Medal is awarded annually to the student of the School of Dental and Oral Surgery who, in the judgment of the Faculty, is most

proficient in some subject of dentistry.

The Alumni Association makes an annual award of the Rowe-Wiberg Medal to the Senior student who has shown the greatest proficiency in prosthetic dentistry.

An annual award is made by the Sigma Epsilon Delta Fraternity to the graduating student who, in the opinion of the Faculty, shows the greatest promise.

The staff of the Division of Operative Dentistry has established an annual prize for excellence in operative dentistry.

STUDENT LOANS

Loan funds are provided in a limited amount for the assistance of students, but it is the general policy to grant loans only to students who have satisfactorily completed at least one session of residence at the University. Application is made on a blank which may be obtained from the office of the Dean or of the Bursar. Applications for loans for the Winter Session should be filed by September 15; for the Spring Session, by January 15.

STUDENT EMPLOYMENT

Owing to the heavy schedule of the Dental School, it is difficult for dental students to undertake outside part-time work during the academic year and, so far as practical, other financial arrangements should be made.

OFFICERS OF INSTRUCTION

HAROLD A. ABRAMSON, Assistant Clinical Professor of Physiology; A.B., Columbia, 1920; M.D., 1923 THOMAS H. ALLEN, Associate Professor of Physi-

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Houghton Holliday Carl R. Oman JOSEPH SCHROFF
GILBERT P. SMITH
ARTHUR C. TOTTEN

Associate Attending Dental Surgeons

LESTER R. CAHN
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BARNET M. LEVY

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EDWARD V. ZEGARELLI

Assistant Attending Dental Surgeons

Frank E. Beube Jack Budowsky Edward A. Cain Kourken Daglian ROBERT E. HERLANDS
LOUIS L. SCHWARTZ
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ADOLPH BERGER, Consultant

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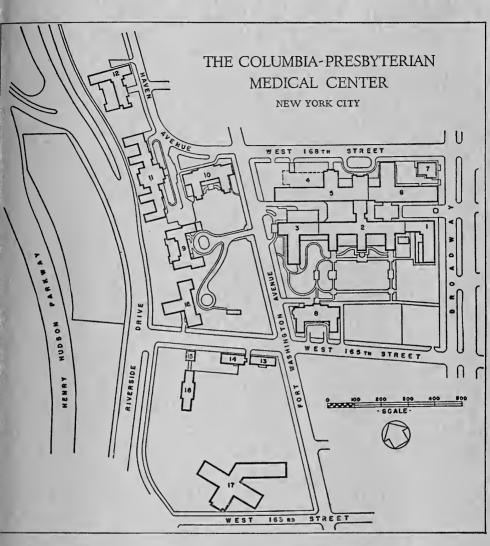
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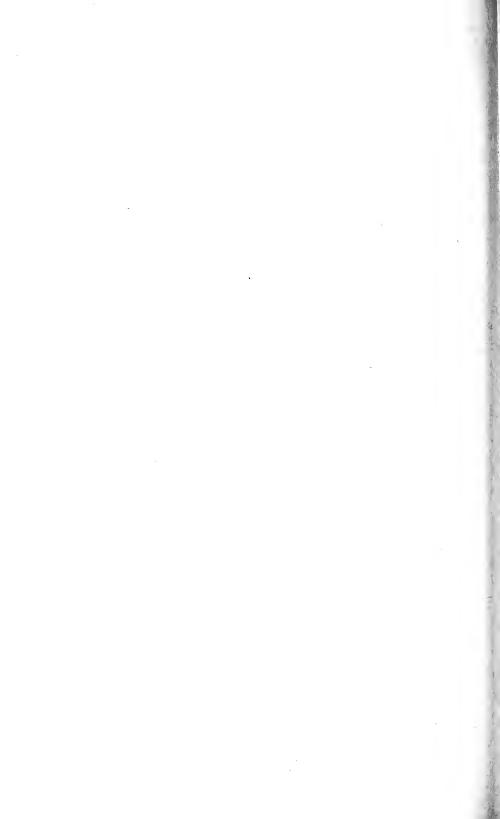


- 1. Babies Hospital
- 2. Presbyterian Hospital Sloane Hospital New York Orthopaedic Hospital
- 3. Harkness Pavilion
- 4. Power plant
- 5. College of Physicians and Surgeons
- 6. Vanderbilt Clinic
 - School of Dental and Oral Surgery
- Washington Heights Health and Teaching Center, New York City Department of Health
 - School of Public Health

- 8. Institute of Ophthalmology
- 9. Maxwell Hall
- 10. Neurological Institute
- 11. New York State Psychiatric Institute and Hospital
- 12. Bard Hall
- 13, 16. Storage
- 14. Shops
- 15. Housing
- 17. Francis Delafield Hospital, New York City Department of Hospitals
- 18. Edward S. Harkness Memorial Hall









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